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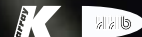
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SENNHEISER PRODUCTS 2010



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Introduction

For more than sixty years, Sennheiser has been creating superlative audio products for professionals and consumers the world over, winning countless awards and earning the accolades of critics and competitors alike. This alone is incentive enough for the Sennheiser Group, comprising the Sennheiser, Neumann and Sennheiser Communications brand names, to continue driving the development of electro-acoustics as a global market leader.

From the very beginning, our headphones and microphones have distinguished themselves. They are characterized by innovation and dedication to quality, as exemplified by the introduction of Open Aire™ technology pioneered by the HD 414 headphones in 1968. The unparalleled Orpheus headphone system offers the finest audio reproduction available, while the RS series headphones feature both exceptional quality and wireless ease. Call center employees enjoy the same benefits when they use headsets, designed entirely for their needs, by Sennheiser Communications.

Our microphones are equally impressive: the MD 421 II reissue combines the characteristics of the most popular professional dynamic mic ever (the MD 421) with enhanced frequency response. The U 87 is probably the most well-known and widely used Neumann studio microphone (with dual diaphragm capsule). Covering vocal, instrumental and backline, the evolution™ microphone series answers every conceivable live performance requirement. The latest addition to this line are the 900 series microphones, which offer the same exceptional performance and affordable prices as the other mics in this line.

Our wireless systems, whether RF or infrared, are widely recognized to be the finest wireless systems available anywhere. From the fabled 5000 series, which has won many awards – including an Emmy Award for “Outstanding Achievement in the Sciences of Television Technology for RF Wireless Systems” to our brand new evolution 9 series and wireless monitoring systems, our RF wireless line offers exceptional performance. And Sennheiser infrared wireless systems provide nearly limitless configurations, offering wireless ease and excellent sound quality for applications from personal use to conference audio. Our state-of-the-art conference systems set standards worldwide. Whether for small seminars or large international congresses –

Sennheiser offers a premier conference and interpretation solution. And our award-winning GuidePort visitor information system is the product of choice when it comes to providing quality audio for theme parks and exhibitions.

Audiology products by Sennheiser exhibit the same excellent audio specifications as their music-oriented counterparts, providing assistive listening for many varied applications, from TV and theater listening to ambient sound amplification. A recent addition to our audiology line, the Sennheiser Soundfield system combats poor acoustics in classrooms and thus improves academic performance.

Our complete line of aviation boomsets and headsets has become the industry standard for discerning pilots, crew members, and passengers alike. Enhanced by our Noise-Gard™ active noise compensation system, built-in passive noise cancellation, high-quality noise compensating microphones and unrivaled comfort, these products also share traditional Sennheiser audio quality – as do our boomsets and headphones for automotive applications.

This catalog listing the entire product range of the Sennheiser Group offers you more than just leading audio products. The following pages also document standards that apply all over the world.



Prof. Dr.
Jörg Sennheiser

Audiophile sound. High-end headphones.

The true-to-life, unadulterated sound of our audiophile headphones will transport you into another world. Lean back and enjoy.



HD 800 The HD 800 are handmade reference class headphones that set new standards for pure sound, spatial perception and precision resolution.

- Large, circular transducers
- Frequency response: 6–51,000 Hz
- Max. SPL (at 1 kHz): 102 dB
- Awards:
EISA Award 2009



HD 650 With hand-selected magnet systems for each transducer, these open, dynamic hi-fi headphones set the standard for premium-class headphones.

- Extremely detailed playback with high pulse fidelity
- Frequency response: 10–39,500 Hz
- Max. SPL (at 1 kHz): 103 dB
- Awards:
Golden Ear (Audio 2009, 2006, 2005)
Five of five possible stars
(WHAT HI-FI 02/2004)
Sound: First class, Price/performance:
Outstanding (Stereoplay 05/2003)
Test verdict: Very good, best buy
(HOME electronic 11/2003)
Price/performance: Very good
(STEREO 12/2003)



HD 600 Experience purity and exceptional dynamic response with these open, dynamic hi-fi headphones.

- Natural spatial sound
- Frequency response: 12–39,000 Hz
- Max. SPL (at 1 kHz): 97 dB
- Awards:
Golden Ear (Audio 1998, 1999, 2000, 2001)
1st prize, readers' choice 2000 (Stereoplay)
Test winner (VIDEO 08/2002)

Home entertainment. Wired headphones.

These wired stereo headphones allow you to experience your favorite music with greater immediacy and comfort than ever before.



HD 595 These open, dynamic stereo headphones bring home entertainment to another level. Their premium components deliver impeccable fidelity and natural, detailed linearity.

- E.A.R. technology
- Frequency response: 12–38,500 Hz
- Max. SPL (at 1 kHz): 112 dB
- Awards:
 - reddot design award winner 2004



HD 555 The HD 555 are open, dynamic high-end headphones for home use. The DuoFol membranes and surround reflector ensure a clear and spatial sound.

- E.A.R. technology
- Frequency response: 15–28,000 Hz
- Max. SPL (at 1 kHz): 112 dB
- Awards:
 - Stereoplay HIGHLIGHT (Stereoplay 07/2004)
 - Five of five possible stars, best buy (What video 12/2004)
 - Best buy (Audio 02/2005)



HD 515 Built as an ideal entry into hi-fidelity listening. DuoFol transducer membranes reproduce fast transients and low, tight bass.

- E.A.R. technology
- Frequency response: 14–26,000 Hz
- Max. SPL (at 1 kHz): 108 dB
- Awards:
 - CES Innovations Award 2004

Home entertainment. Wireless headphones.

Sennheiser's line of wireless headphones bring the highest quality audio to any corner of the house. Outstanding sound, long battery life, practical range and long-term wearing comfort will make your next movie night the best one yet.



RS 180 These open wireless headphones with digital transmission technology provide an extremely detailed, pure sound.

- KLEER digital transmission for a "wired" sound
- Frequency response: 18–21,000 Hz
- Transmission frequencies: 2.4–2.48 GHz
- Up to 320 ft range



RS 170 The RS 170 are closed, digital wireless transmission headphones, distinguished by their powerful and detailed 3-D cinema surround sound.

- KLEER digital transmission for a "wired" sound
- Frequency response: 18–21,000 Hz
- Transmission frequencies: 2.4–2.48 GHz



RS 160 These closed, digital wireless transmission headphones provide high-volume, bass-driven sound. The compact transmitter fits into any bag.

- KLEER digital transmission for a "wired" sound
- Frequency response: 18–21,000 Hz
- Transmission frequencies: 2.4–2.48 GHz



RS 120 This open, dynamic wireless headphone system delivers exciting, crystal clear sound through walls and ceilings up to 300 feet.

- Headphone operating time: approx. 20-25 hours
- Frequency response: 22–19,500 Hz
- Transmission frequencies: 926-928 MHz
- Awards: reddot design award winner 2004



IS 410 TV This infrared stethoset system transmits excellent TV stereo sound within a room. Its attractive eye-catching design provides a convincing argument.

- Frequency response: 50–16,000 Hz
- Max. SPL (at 1 kHz): 125 dB
- Receiver operating time: up to 16 hours
- Awards: iF product design award 2007



RS 110 These open, dynamic wireless headphones are the perfect entry into Sennheiser wireless sound.

- Headphone operating time: approx. 20–25 hours
- Frequency response: 22–19,500 Hz
- Transmission frequencies: 926-928 MHz



Set 50 TV The mono Set 50 TV is the solid entry-level model in the infrared stethoset systems range. It offers you great mobility and high Sennheiser quality at a low price.

- Frequency response: 50–12,000 Hz
- Max. SPL (at 1 kHz): 120 dB
- Receiver operating time: up to 9 hours

Portable entertainment. Music.

A dynamic, balanced sound and their varied range of applications distinguish these classic, portable head- and earphones. The sound quality and features are made to exceed the highest standards of music lovers.



OMX 980 Ultra-premium portable hi-fi earclip headphones. Their reinforced, elegant design provides a secure, comfortable fit.

- Neodymium magnets for a powerful, precise sound
- Integrated volume control
- Frequency response 16–23,000 Hz
- Max. SPL (at 1 kHz): 120 dB

NEW



MX 980 Ultra-premium portable hi-fi earbud headphones. The bold design lets others know who you are without saying a word.

- Neodymium magnets for a powerful, precise sound
- Integrated volume control
- Frequency response: 16–23,000 Hz
- Max. SPL (at 1 kHz): 120 dB

NEW



CX 980 Ultra-premium portable hi-fi in-ear headphones. A broad range of ear adapters fine-tunes your sound and comfort to perfection.

- Patented airline adaptor
- Integrated volume control
- Frequency response: 16–24,000 Hz
- Max. SPL (at 1 kHz): 115 dB

NEW



MX W1 If you have ever dreamed of being completely wireless without compromises, your headphones have arrived.

- Totally wireless, KLEER digital transmission for a “wired” sound
- Frequency response: 19–20,000 Hz
- Max. SPL (at 1 kHz): 115 dB
- Awards: Editor’s choice award, Popular mechanics, EISA Award 2008 European Headphones 2008-2009



CX 880 These ear-canal headphones block ambient noise so you can easily hear the amazing detail from each ear-speaker.

- Exchangeable ear-canal adaptors for a comfortable fit
- Integrated volume control
- Frequency response: 17–23,000 Hz
- Max. SPL (at 1 kHz): 115 dB

NEW



CX 870 These premium ear-canal phones have powerful passive noise attenuation. This enables the precise, bass-driven stereo sound to come into its own.

- Exchangeable ear-canal adaptors for a comfortable fit
- Frequency response: 17–22,500 Hz
- Max. SPL (at 1 kHz): 115 dB)

NEW



OCX 880 These ear-canal clip-on headphones block ambient noise with stability and comfort for long listening sessions.

- Exchangeable ear adaptors and a practical carrying case
- Integrated volume control
- Frequency response: 19–21,000 Hz
- Max. SPL (at 1 kHz): 108 dB

NEW



MX 880 These earbud headphones feature impressive, clear audio with a functional ergonomic design.

- Integrated volume control
- Frequency response: 18–22,000 Hz
- Max. SPL (at 1 kHz): 120 dB

NEW



PX 210 BT These wireless folding mini headphones provide listening pleasure while blocking out distracting ambient noise.

- Stereo audio (listen only) Bluetooth® 2.1
- Frequency response: 15–22,000 Hz
- Max. SPL (at 1 kHz): 107 dB



HD 238 Precision Experience huge, natural sound in tandem with luxurious comfort on-the-go.

- Open, supra-aural construction
- Frequency response: 16–23,000 Hz
- Max. SPL (at 1 kHz): 114 dB



PX 200-II Available in black or white, the foldable, noise blocking design is perfect for the urban commuter.

- Mini-headphones with closed construction
- Frequency response: 10–21,000 Hz
- Max. SPL (at 1 kHz): 115 dB



HD 228 This closed on-the-ear headphone features explosive bass response perfect for today's modern music.

- Neodymium magnets for a bass-driven sound
- Frequency response: 18–22,000 Hz
- Max. SPL (at 1 kHz): 110 dB



PX 100-II Available in black or white, these foldable, open-are headphones make portable hi-fi a reality.

- Mini-headphones with open construction
- Frequency response: 15–27,000 Hz
- Max. SPL (at 1 kHz): 114 dB



HD 218 Feel rhythm and bass with fluid, dynamic response. The on-ear design blocks noise and folds flat.

- Neodymium magnets for a bass-driven sound
- Frequency response: 19–21,000 Hz
- Max. SPL (at 1 kHz): 108 dB



PMX 60 The PMX 60 offers an excellent, balanced stereo sound, exceeding all the usual expectations from neckband headphones.

- Bass tube for rich bass sounds
- Frequency response: 18–21,000 Hz
- Max. SPL (at 1 kHz): 122 dB



CX 300-II These ear-canal phones provide precise and clear stereo sounds with great vitality. They are available in various colours and with a 2.5-mm jack.

- Ideal fit for every ear
- Frequency response: 19–20,000 Hz
- Max. SPL (at 1 kHz): 113 dB



NEW

MX 580 Using a new comfort sleeve for the best fit, these earbuds offer an exceptional upgrade from stock earbuds.

- Carrying pouch
- Integrated volume control
- Frequency response: 18–21,000 Hz
- Max. SPL (at 1 kHz): 119 dB



NEW

MX 371 These in-ear phones deliver a powerful stereo sound and the ergonomic design makes them perfectly suited, even for users with small ears.

- Cable winder prevents tangles
- Frequency response: 18–20,000 Hz
- Max. SPL (at 1 kHz): 118 dB



NEW

MX 581 With a compact design fit for smaller ears, these earbuds deliver excellent sound quality and value.

- Adaptor for two headphone connectors
- Integrated volume control
- Frequency response: 18–21,000 Hz
- Max. SPL (at 1 kHz): 119 dB



NEW

MX 370 These lightweight earbud phones provide dynamic bass reproduction.

- Cable winder prevents tangles
- Frequency response: 18–20,000 Hz
- Max. SPL (at 1 kHz): 118 dB



NEW

MX 471 The MX 471's LiveBass system provides outstanding bass sounds. The compact earphones are especially ideal for users with small ears.

- Carrying bag for fourth-generation iPod nanos
- Frequency response: 18–20,000 Hz
- Max. SPL (at 1 kHz): 119 dB



NEW

MX 271 The MX 271 offer a dynamic sound on the move. Their ergonomic design was specially optimized for people with smaller ears.

- Cable winder prevents tangles
- Frequency response: 19–20,000 Hz
- Max. SPL (at 1 kHz): 118 dB



NEW

MX 470 The LiveBass system enables these ergonomically shaped earphones to provide thumping bass sounds. The ear sleeves fit comfortably in the ears.

- Carrying bag for fourth-generation iPod nanos
- Frequency response: 18–20,000 Hz
- Max. SPL (at 1 kHz): 119 dB



NEW

MX 270 No sacrifice in sound quality or portability. The ergonomic MX 270 earphones deliver a powerful stereo sound experience.

- Ideal for connecting with portable media devices
- Ergonomic design for a superior fit
- Frequency response: 19–20,000 Hz
- Max. SPL (at 1 kHz): 118 dB



CX 281 The clear and detailed sound from these ear-canal phones is impressive. The three ear adaptors ensure an ideal fit, even for users with small ears.

- Adaptor for two headphone connectors
- Integrated volume control
- Frequency response: 19–20,500 Hz
- Max. SPL (at 1 kHz): 120 dB

NEW



CX 280 The CX 280 high performance ear-canal headphones reveal subtle details in your music with clarity and detail you would expect to cost more.

- Three ear adaptors for perfect fit
- Frequency response: 19–20,500 Hz
- Max. SPL (at 1 kHz): 120 dB

NEW



CX 200 Street II Ear-canal phones with an innovative casing that ensures extremely comfortable fit and high passive attenuation of ambient noise.

- Powerful, bass-driven stereo sound
- Frequency response: 20–20,000 Hz
- Max. SPL (at 1 kHz): 110 dB



OMX 181 LiveBass enhances the low-frequency response of these earclip headphones for smaller ears.

- With volume control on the cable
- Frequency response: 18–20,000 Hz
- Max. SPL (at 1 kHz): 118 dB

NEW



OMX 180 LiveBass enhances the low-frequency response of these earclip headphones.

- With volume control on the cable
- Frequency response: 18–20,000 Hz
- Max. SPL (at 1 kHz): 118 dB

NEW



HD 448 Natural sound and aggressive noise attenuation make these closed headphones ideal for any situation.

- With carrying pouch & extension cable
- Frequency response: 16–24,000 Hz
- Max. SPL (at 1 kHz): 114 dB



HD 428 The HD 428 are closed headphones with great stereo playback. The rubberized outer shell enhances the durability and noise blocking capabilities of this bass enhanced headphone.

- Neodymium magnets for powerful bass
- Frequency response: 18–22,000 Hz
- Max. SPL (at 1 kHz): 110 dB



HD 438 Inspired by the wheels on exotic cars, the HD 438 offers excellent bass reproduction and high quality sound to match.

- Short / long cables for home/portable use
- Frequency response: 17–22,500 Hz
- Max. SPL (at 1 kHz): 112 dB



HD 201 The entry-level model for a sophisticated sound experience brings out its bass-driven sound through passive attenuation.

- Closed construction
- Frequency response: 21–18,000 Hz
- Max. SPL (at 1 kHz): 108 dB



Portable entertainment. Sports.



The innovative design of the Sennheiser/adidas sport line offers outstanding sound, and a comfortable, secure fit that does not fall out when running or at the gym. Sweat and water resistant construction performs as hard as you even in low temperatures.



CX 680 Sports These ear-canal phones are ideal for an excellent sound experience during sports. High-output ear-canal drivers for energising sound and superb noise insulation.

- Two ear-adaptor sizes for an ideal fit
- Integrated volume control
- Frequency response: 18–20,000 Hz
- Max. SPL (at 1 kHz): 120 dB

NEW



NEW

MX 680 Sports Featuring an innovative holding mechanism, the MX 680 is perfect for keeping the energy up during intensive workouts.

- Different ear-adaptor sizes for an ideal fit
- Integrated volume control
- Frequency response: 18–20,000 Hz
- Max. SPL (at 1 kHz): 118 dB
- Includes extension cable



NEW

OMX 680 Sports Featuring an flexible earhook system, these headphones are perfect for your next outdoor adventure.

- Different ear-adaptor sizes for an ideal fit
- Integrated volume control
- Frequency response: 18–20,000 Hz
- Max. SPL (at 1 kHz): 118 dB
- Includes extension cable



NEW

PMX 680 Sports The neckband design and verticle transducer system keep the speakers comfortably in place no matter the sport.

- Integrated volume control
- Frequency response: 18–20,000 Hz
- Max. SPL (at 1 kHz): 120 dB
- Includes extension cable

Portable entertainment. Travel.

Sennheiser's Travel line upgrades any seat to first class. The NoiseGard™ system effectively reduces fatiguing cabin noise so you can relax and enjoy the trip.



PXC 450 These around-the-ear headphones fit in the smallest carry-ons thanks to a unique folding design. NoiseGard 2.0 cancels up to 90% of noise.

- NoiseGard™ 2.0 and TalkThrough function
- Frequency response: 8–28,000 Hz
- Max. SPL (at 1 kHz): 108 dB
- Awards:
Golden Ear (Audio 2008 and 2009)
Plus X Award 2008, What Hi-Fi Award 2007



PXC 310 BT The folding PXC 310 BT is the ideal travel companion with a stereo Bluetooth audio source.

- NoiseGard™ 2.0 and TalkThrough function
- Frequency response: 15–22,000 Hz
- Max. SPL (at 1 kHz): 107 dB



PXC 310 The PXC 310 are the perfect mini-headphones for noisy environments like airplanes or trains. They are easy to fold up and comfortable to wear.

- NoiseGard™ 2.0 and TalkThrough function
- Frequency response: 15–22,000 Hz
- Max. SPL (at 1 kHz): 107 dB



PXC 250-II These closed stereo mini-headphones are foldable and easy to carry. Additionally, the steel-reinforced headband is extremely durable and robust.

- NoiseGard™ technology
- Frequency response: 10–21,000 Hz
- Max. (SPL) (at 1 kHz): 106 dB

Professional. DJ and monitoring headphones.

Sennheiser's Professional headphones provide effective shielding from all ambient noise and outstanding monitoring characteristics. They are extremely robust and resilient – perfect for clubs and studios.



HD 380 pro The foldable high-end headphones are ideal for professional use in a studio. The closed construction ensures excellent attenuation; the E.A.R. technology provides a perfectly channelled sound.

- Includes a storage case
- Frequency response: 8–27,000 Hz
- Max. SPL (at 1 kHz): 110 dB



HD 280 Silver The HD 280 Silver are dynamic headphones with a closed construction, which provide – besides a comfortable fit – a linear, natural sound.

- True-to-detail linear reproduction
- Frequency response: 8–25,000 Hz
- Max. SPL (at 1 kHz): 110 dB
- Easily exchangeable components



HD 280 pro Because of the robust construction and excellent shielding, the HD 280 Professional headphones are ideal for listening in noisy environments.

- True-to-detail linear reproduction
- Frequency response: 8–25,000 Hz
- Max. SPL (at 1 kHz): 110 dB
- Easily exchangeable components



HD 25 II A legend and broadcasters standard. Incredible noise isolation, acoustical detail and stability.

- Split headband
- Frequency response: 16–22,000 Hz
- Max. SPL (at 1 kHz): 120 dB



HD 205-II The HD 205-II are medium-sized, supra-aural headphones with outstanding sound characteristics and great attenuation.

- Rotatable earpiece for DJ use
- Frequency response: 14–20,000 Hz
- Max. SPL (at 1 kHz): 112 dB



reddot design award
winner 2006



HD 25 SP II The HD 25 SP II are closed, dynamic headphones. They are extremely comfortable, making them outstanding for nightly DJ use.

- Exchangeable OFC cable
- Frequency response: 30–16,000 Hz
- Max. SPL (at 1 kHz): 114 dB



HD 203 Due to their high sound pressure level and reliable shielding, these closed hi-fi stereo headphones are particularly ideal for tracking work at the DAW.

- Punchy bass and precise trebles
- Frequency response: 18–18,000 Hz
- Max. SPL (at 1 kHz): 115 dB

Professional. Portable in-ear monitoring.

These practically indestructible and robust earphones were specially developed for in-ear monitoring on stage. They provide artists & sound technicians with outstanding, detailed stereo sound.



IE 8 Using a tunable bass control, these ear-canal monitoring headphones provide a truly custom private sound experience.

- High noise attenuation of up to 26 dB
- Frequency response: 10–20,000 Hz
- Max. SPL (at 1 kHz): 125 dB
- Awards:
Golden Ear (Audio 2009)



IE 7 These ear-canal phones provide an extremely precise sound for in-ear monitoring. The broad range of earpieces ensures a comfortable and secure fit in the ear.

- Excellent shielding from outside noise
- Frequency response: 10–19,000 Hz
- Max. SPL (at 1 kHz): 120 dB



IE 6 The IE 6 in-ear monitoring model features strong attenuation of ambient noise and true-to-detail, high-bass stereo sound.

- Broad range of accessories
- Frequency response: 10–18,000 Hz
- Max. SPL (at 1 kHz): 115 dB
- Awards:
International Design Excellence Award 2008



Microphones.

evolution – The Microphone Series.

The evolution™ Series presents a complete range of microphones covering vocal, instrument and backline. Evolution microphones feature road-worthy construction, full-metal body, minimum handling noise, amazing SPL and outstanding feedback rejection. All e900 Series wired microphones feature a 10 Year Warranty.



e965 A hand-held vocal microphone with a true condenser capsule in large-diaphragm technology. It combines the best available features of a stage microphone with Sennheiser's pioneering experience in the field of acoustics. Able to cut through high on-stage levels the e965 is the top model of the award-winning evolution 900 Series.

Switchable pick-up pattern (cardioid/super-cardioid)

- Frequency response: 40–20,000 Hz
- Nominal impedance: 50 Ω



evolution 900 Series

e935 A cardioid vocal microphone developed to cut through high stage levels. Highly insensitive to feedback and handling noise, the e935's durable design will take all the inevitable knocks on stage. A hum compensating coil reduces electromagnetic interference.

- Frequency response: 40–18,000 Hz
- Nominal impedance: 350 Ω



e945 A top-class super-cardioid vocal microphone for professional use. The e945 easily cuts through the mix and provides exceptional presence. Precise, full sound is matched with high insensitivity to feedback and handling noise. Rugged design with shock-mount capsule and hum compensating coil.

- Frequency response: 40–18,000 Hz
- Nominal impedance: 350 Ω





e901 A “semi”-cardioid condenser boundary microphone, ideal for miking kick drums. It features an integral phantom power adapter and a highly robust, step-resistant housing.

- Frequency response: 20–20,000 Hz
- Nominal impedance: < 100 Ω



e905 With a high maximum SPL and fast transient response, the cardioid, dynamic **e905** is an all-rounder suitable for a wide range of instruments, and an ideal choice for the snare drum, where the short mic body allows it to be positioned close to the drum skin.

- Frequency response: 40–18,000 Hz
- Nominal impedance: 350 Ω



e902 The frequency response of the **e902** has been optimized for very low frequencies, making this cardioid dynamic microphone an ideal choice for kick drums, bass guitar amps, tuba and other low-frequency instruments. Very fast attack.

- Frequency response: 20–18,000 Hz
- Nominal impedance: 350 Ω



e906 The super-cardioid **e906** is designed specially for guitar amps but is also excellent for drums, percussion and brass instruments. It features three adjustable sound characteristics (bright, normal, smooth).

- Frequency response: 40–18,000 Hz
- Nominal impedance: 350 Ω



e904 A cardioid dynamic microphone for drums (especially toms and snare drums) and percussion. Its very compact design allows a positioning very close to the drum skin. With clip for attaching to the drum rim.

- Frequency response: 40–18,000 Hz
- Nominal impedance: 350 Ω





e908 The four versions of this cardioid condenser microphone guarantee optimum miking solutions and exceptionally vivid, clear sound. The **e908 B** is designed for brass instruments, but its multifunctional bell clip also makes it particularly suitable for drums with suspension system or congas. Complete with phantom power adapter.

The **e908 B ew** (without phantom power adapter) has been specially designed for wireless miking of saxophones, and is used in combination with an evolution wireless bodypack transmitter (not included). The same applies to the **e908 T ew**, which is the ideal solution for miking trumpets, flugelhorns and trombones.

The **e908 D** has been specially developed for drums and percussion. It includes a multifunctional drum clip with integral shock absorber and an intelligent MZA 900 P phantom power adapter with an LED for cable, phantom power and level check. MZA 900 P / MZA 900 P-4 also available separately.

- Frequency response: 40–20,000 Hz
- Nominal impedance: 100 Ω
(at the phantom power adapter)



e912 S A high-quality, pre-polarized condenser microphone with half-cardioid pick-up pattern, acoustically optimized for picking up speech. Due to its unobtrusive, flat design, it is ideally suited for use on conference tables, altars and lecterns. The **e912 S** can be switched on and off via an integrated membrane switch. Available in cream white and black.

- Frequency response: 20–20,000 Hz
- Nominal impedance: 100 Ω



e912 pre-polarized condenser boundary microphone with half-cardioid pick-up pattern. Its acoustic properties have been optimized for instruments, vocals and speech. The **e912** is an ideal choice for pianos, theater and opera productions, conference applications, altars and lecterns. Available in black or cream white.

- Frequency response: 20–20,000 Hz
- Nominal impedance: 100 Ω



e914 A condenser microphone designed for ambitious recordings and live performances. It is ideal for cymbals, hi-hats, overhead miking, choirs, and orchestras. The **e914** is fitted with a three-position sensitivity switch and a three-position bass roll-off/cut-off switch.

- Frequency response: 20–20,000 Hz
- Nominal impedance: 100 Ω



eolution 800 Series



e815 S The most affordable way to enjoy the legendary evolution sound. Rugged, cardioid vocal microphone, which efficiently suppresses handling noise and sounds outside the pick-up angle. With hum compensating coil for reducing electromagnetic interference and lockable, noiseless on/off switch.

- Frequency response: 80–12,000 Hz
- Nominal impedance: 350 Ω

Variants:

- **e815 S-C**: with microphone clip
- **e815 S-J**: with microphone clip and XLR-jack cable
- **e815 S-X**: with microphone clip and XLR-XLR cable



e840 Professional cardioid vocal microphone developed to cut through high on-stage levels. Rugged, durable construction, insensitive to handling noise. The **e840** efficiently suppresses sounds emanating from outside its pick-up angle, and is fitted with a hum compensating coil for reducing electromagnetic interference. Also available as **e840 S** with noiseless on/off switch.

- Frequency response: 40–18,000 Hz
- Nominal impedance: 350 Ω



e825 S Multi-purpose vocal and instrument microphone. Full metal construction with on/off switch – Sennheiser quality at an unbeatable price.

- Frequency response: 80–15,000 Hz
- Nominal impedance: 350 Ω



e845 High performance super-cardioid vocal microphone with exceptional feedback rejection. Ensures vocal projection through high on-stage sound levels. Also available as **e845 S** with noiseless on/off switch.

- Frequency response: 40–16,000 Hz
- Nominal impedance: 350 Ω



e835 High-quality vocal microphone. Cardioid pick-up pattern for good feedback rejection and uniform on and off-axis response. Also available as **e835 S** with noiseless on/off switch.

- Frequency response: 40–16,000 Hz
- Nominal impedance: 350 Ω



e865 The highlight of evolution 800 Series stage microphones. Rugged condenser mic that cuts easily through high on-stage levels. Full, precise sound, especially in the treble. Also available as **e865 S** with noiseless on/off switch.

- Frequency response: 40–20,000 Hz
- Nominal impedance: 200 Ω





epack e835 The epack e835 provides all you need for your live performance. Besides the professional evolution vocal microphone e835 the epack includes a high-quality K&M microphone stand, a 5 m XLR cable, a microphone clip and a robust microphone pouch. The e835 is a cardioid lead vocal stage microphone specially designed to perform under pressure.

- Frequency response: 40–16,000 Hz
- Nominal impedance: 350 Ω



evolution 600 Series

e602-II Dedicated mic for bass instruments. Delivers very low bass response (down to 20 Hz) and fast transient signals. No corrective EQing necessary, even on the most problematic bass signal sources.

- Frequency response: 20–16,000 Hz
- Nominal impedance: 350 Ω



e604 Robust mic for close-miking drums, brass and woodwind instruments, capable of handling very high sound pressure levels in excess of 160 dB. Delivered with drum clip for attachment to rim of drum.

- Frequency response: 40–18,000 Hz
- Nominal impedance: 350 Ω



e609 Silver Rugged super-cardioid microphone for guitar and bass amplifiers, able to handle extreme sound pressure levels.

- Frequency response: 40–15,000 Hz
- Nominal impedance: 350 Ω



Microphones

Classic Microphones.

Renowned for decades, Sennheiser's line of classic dynamic microphones has been updated with the complete re-engineering of the famous MD 421.

e608 The world's smallest dynamic microphone with a full-size sound quality. Newly developed clamp and gooseneck mounting for positioning the mic close to the sound source.

- Frequency response: 40–16,000 Hz
- Nominal impedance: 250 Ω



MD 421 II The current version of our enormously popular dynamic mic, optimal for recording drums, guitars, many other instruments, and even group vocals.

- Frequency response: 30–17,000 Hz
- Nominal impedance: 200 Ω



MD 431 II The classic dynamic mic for live vocals.

- Frequency response: 40–16,000 Hz
- Nominal impedance: 250 Ω



MD 441 U Super-cardioid, dynamic, and suited to nearly any miking situation. A true classic.

- Frequency response: 30–20,000 Hz
- Nominal impedance: 200 Ω



e614 A pre-polarized condenser instrument microphone with super-cardioid pick-up pattern. Designed for demanding applications, which require a wide frequency response, high SPL, fast transient response and a compact design.

- Frequency response: 40–20,000 Hz
- Nominal impedance: 50 Ω



Microphones. Reporter's Microphones.



MKE 400 Rugged, compact and versatile for great video sound: the MKE 400 is a small shotgun microphone for cameras with a lighting shoe mount and external microphone input.

- Frequency response: 40–20,000 Hz
- Operating Time: approx. 300 hrs



Microphones. Headset Microphones.



MD 42 A high-quality microphone with an omni-directional pick-up pattern, optimized for use in live reporting and broadcast environments. The dynamic MD 42 features an extra-long microphone body, phenomenal sound quality and excellent suppression of handling noise. The two-ply sound inlet basket provides increased protection from wind and pop noise.

- Frequency response: 40–18,000 Hz
- Nominal impedance: 350 Ω



MD 46 A high-quality microphone with cardioid pick-up pattern, optimized for use in live reporting and broadcast environments with high levels of background noise. The two-ply sound inlet basket provides increased protection from wind and pop noise.

- Frequency response: 40–18,000 Hz
- Nominal impedance: 350 Ω



Ear Set 1



Ear Set 4

The Ear Set 1 and Ear Set 4 are high-quality pre-polarized condenser ear-worn microphones designed for professional applications. They differ from each other in their pick-up patterns.

- Ear Set 1:



- Ear Set 4:



Features of the Ear Set 1 / Ear Set 4:

- Compatible with all Sennheiser wireless microphone systems
- Individually adjustable to the ear due to flexible earband
- Cable is insensitive to structure-borne noise
- Modular design, i.e. all system components are easily interchangeable
- Very small dimensions
- Very insensitive to the penetration of sweat and moisture
- High maximum sound pressure level and excellent speech intelligibility
- Based on the proven acoustics of the MKE 1 sub-miniature clip-on microphone (Ear Set 1) or the HSP 4 headmic (Ear Set 4)
- Transparent and skin-friendly hypoallergenic adhesive tape ensures a perfect fit of the microphone boom even during strong movements and provides strain relief for the cable



HSP 2 High-quality polarized condenser headmic with omni-directional pick-up pattern, designed for professional “hands-free” applications. The adjustable neckband is visually unobtrusive and very comfortable to wear. The different HSP 2 variants differ in color, size and connector, and can, for example, be used with evolution wireless or 3000 and 5000 Series transmitters. Also available in medium size and beige.

■ Frequency response: 20–20,000 Hz



HSP 4 High-quality pre-polarized condenser headmic with cardioid pick-up pattern, designed for professional “hands-free” applications. The adjustable neckband is visually unobtrusive and very comfortable to wear. The six available HSP 4 variants differ in color, size and connector, and can, for example, be used with evolution wireless transmitters or 3000 and 5000 Series transmitters. Also available in medium size and beige.



HS 2 The HS 2 is an omni-directional condenser headset microphone using an MKE 2 capsule and fitted with a steel wire cable and a special 3-pin connector to fit Sennheiser 3000 and 5000 Series bodypack transmitters. The small capsule and gooseneck assembly can be optimally positioned for both vocal and speech applications. Also available as HS 2-1 in beige and black.



ME 3 Headmic for SK 100, SK 300 and SK 500, condenser, cardioid.

■ Sound pressure level: 150 dB



Microphones. Lavalier Microphones.

Embodying Sennheiser’s extensive knowledge of microphone technology in sub-miniature packages, these microphones have become the industry’s standards in theater, television, and film applications.



MKE 1 Our Smallest Sound Pro: at its best in all situations where a microphone needs to be virtually invisible and still offer outstanding sound quality. Special gauze and multi-purpose cap offer additional protection from moisture. In addition to traditional black and beige, the MKE 1 is now available in brown and white.

■ Frequency response: 20–20,000 Hz



MZ1 Accessory kit for the MKE 1. The accessory set comes in a convenient transparent box that includes:

- (2) MZQ 1 mini clips (black and beige)
- (2) “Dracula” mounts (black and beige)
- (2) MZM 1 magnetic mount with lanyard
- (2) MZQ 10 mini-clamps (black and beige)
- (2) MZW 01 windshield baskets
- (4) foam windshields



MKE 2 Omni-directional subminiature lavalier mic, features innovative, Sennheiser patented “Umbrella” diaphragm for optimum moisture protection. Delivered complete with various accessories.

- Frequency response: 20–20,000 Hz



MKE platinum features Sennheiser’s patented “Umbrella” dia phragm for optimum moisture protection. It has a warm and natural sound requiring minimal EQ adjustment, and features an extremely thin and fl exible Kevlar®-reinforced cable. Special connectors are available for 3000 and 5000 Series body-pack transmitters.



ME 102* Omni-directional miniature lavalier mic with interchangeable microphone capsule. (* shown with optional cable)

- Frequency response: 40–20,000 Hz
- Nominal impedance: 1000 Ω



ME 104* Cardioid miniature lavalier mic with interchangeable microphone capsule. (* shown with optional cable)

- Frequency response: 100–20,000 Hz



ME 105* Super-cardioid miniature lavalier microphone with interchangeable capsule. (* shown with optional cable)

- Frequency response: 100–20,000 Hz
- Nominal impedance: 800 Ω



ME 2 Omni-directional lavalier microphone to be used with evolution wireless or FreePort bodypack transmitters or MZA 900 P phantom power adapter with wireless applications.

- Frequency response: 40–18,000 Hz



ME 4 Lavalier mic with cardioid pattern and exceptional feedback rejection. Can be used together with evolution wireless series or FreePort bodypack transmitters or MZA 900 P phantom power adapter with wireless applications.

- Frequency response: 80–16,000 Hz



MZA 900 P/MZA 900 P-4

The MZA 900 P phantom power adaptor is used to connect pre-polarized condenser microphones with a 3.5mm jack plug to microphone inputs with 10 – 52 V phantom powering (P12 – P48). The connected microphone is supplied via the adaptor.

Microphones. Installed Sound.

Sennheiser's Installed Sound product line consists of three versatile pre-polarized condenser microphone heads, which can be combined with various goosenecks, ceiling and table mounts. They are suitable for a wide range of applications, including conferences, public address, studios, broadcasts, houses of worship, and television productions.



ME 34 High sound quality and low equivalent noise level are the features of this cardioid microphone capsule. The durable, matte black or Nextel metal housing has a special anti-reflection coating.

- Frequency response: 40–20,000 Hz



ME 35 Similar to ME 34, however, this microphone has a super-cardioid pick-up pattern for greater rejection of ambient sounds.

- Frequency response: 50–20,000 Hz



ME 36 The ME 36 microphone capsule features a super-cardioid/lobar pick-up pattern with excellent directivity and maximum rejection of unwanted sounds. Its superior sound quality and high gain before feedback is matched by a low equivalent noise level. The durable, matte black or Nextel metal housing has a special anti-reflection coating.

- Frequency response: 40–20,000 Hz



MZH 3015/MZH 3015 L Metal gooseneck for use with the ME 34, 35 and 36 microphone heads. The durable matte black or Nextel gooseneck is fitted with a balanced, floating XLR-3 output, enabling the microphone to work with 12–48 V phantom power. Also available as MZH 3015 L in matte black finish with red LED ring and XLR-5 connector.

- Length: 6 in.



MZH 3040/MZH 3040 L Metal gooseneck for use with ME 34, ME 35 and ME 36 microphone capsules. The durable matte black or Nextel gooseneck is fitted with a balanced, floating XLR-3 output, enabling the microphone to work with from 12–48 V phantom power. Also available as MZH 3040 L in black finish with red LED ring and XLR-5 connector.

- Length: 16 in.



MZH 3042/MZH 3042 L Metal gooseneck with two flexible sections for use with ME 34, ME 35 and ME 36 microphone capsules. The durable matte black or Nextel gooseneck is fitted with a balanced, floating XLR-3 output, enabling the microphone to work with 12–48 V phantom power. Also available as MZH 3042 L in black finish with red LED ring and XLR-5 connector.

- Length: 16 in.



MZH 3062 Metal gooseneck with two flexible sections for use with ME 34, ME 35 and ME 36 microphone capsules. The durable matte black or Nextel gooseneck is fitted with a balanced, floating XLR-3 output, enabling the microphone to be powered from 12–48 V phantom power.

- Length: 23 in.



MZH 3072 Metal gooseneck with two flexible sections for use with ME 34, ME 35 and ME 36 microphone heads. The durable matte black or Nextel gooseneck is fitted with a balanced, floating XLR-3 output, enabling the microphone to be powered from 12–48 V phantom power.

- Length: 27 in.



MZFS 60/MZFS 80 Floor stands for MZH 3015, MHZ 3040 and MZH 3042 goosenecks. Available heights: 23.6 and 31.5 in. Available in matte black or Nextel finish. Can be converted to wireless operation using a SKP plug-on transmitter with phantom powering. Available in matte black or Nextel finish.

Microphone. Optical Microphone.



MZS 31 Shock-mount for MZH goosenecks.



MZC 30 Connecting cable XLR-3M to special coax connector (ME 34, 35, 36) for ceiling-mounting.



MO 2000 With a non-metallic, non-electric microphone head, the optical microphone is completely insensitive to electrostatic and magnetic fields, ionizing radiation and extreme humidity. It is ideal for use in computer tomography, as a measuring microphone in EMC testing equipment, for industrial applications and in hazardous areas.

- Polar pattern: Omni-directional
- Sensitivity: 15 mV/Pa
- Max. sound pressure level: 134 dB



MZH 30 Metal ceiling mount for optimal positioning of mic capsules ME 34, 35 and 36.



IAS MO 2000 SET IAS MO 2000 SET includes the MZWW 2000 weather and wind protection. It complies with IP 54. This system is ideal for use in outdoor applications especially in explosion endangered areas (e.g. acoustical surveillance of gas pipelines).



MZTX 31/MZTX 31 PTT Table stands with XLR-3 connector. The MZTX 31 PTT offers a microphone button that can be switched between mic on/off and push-to-talk operation. The stands can be converted to wireless operation using a SKP plug-on transmitter that provides phantom powering. Available in matte black or Nextel finish.

Microphones.

K6 Microphones.

The K6 Modular System is a versatile professional condenser microphone system of exceptionally high quality. Available with a wide variety of modules for different powering arrangements, polar patterns, and capsule sizes, the K6 System provides a flexible tool for all recording and sound reinforcement work.

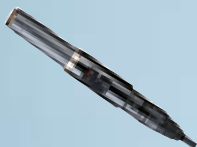
K6 Battery/phantom power module.

- Frequency response: 20 Hz–20 kHz $\pm$ 1 dB
- Rated impedance: 200 Ω



K6P Phantom power only module.

- Frequency response: 20 Hz–20 kHz $\pm$ 1 dB
- Rated impedance: 200 Ω



ME 62 Omni-directional mic capsule.

- Frequency response: 20 Hz–20 kHz



ME 64 Cardioid mic capsule.

- Frequency response: 40 Hz–20 kHz



ME 65 Super-cardioid handheld mic capsule.

- Frequency response: 40 Hz–20 kHz



ME 66 Shotgun mic capsule.

- Frequency response: 40 Hz–20 kHz



ME 67 Long shotgun mic capsule.

- Frequency response: 40 Hz–20 kHz



Microphones.

MKH 8000 Series.

The MKH 8000 Condenser Microphone Series has been designed to capture the soul of sound, reproducing music with an unprecedented warmth and transparency.



MKH 8020 The omni-directional MKH 8020 is ideal for recording large and small sound sources, for a "Decca Tree" or for use in an OSS "Jecklin Disk" array. As it does not suffer from a proximity effect, it is also a good choice for close-miking. The extra octave at the bottom end makes the MKH 8020 perfect for recording pipe organs, grand piano and acoustic double-bass.

- Frequency response: 10–60,000 Hz
- Nominal impedance: 25 Ω



MKH 8040 The cardioid MKH 8040 is suitable for almost any application. It considerably reduces pick-up of a reverberant room. This is very helpful in rooms with poor acoustics or when disturbing sounds interfere mainly from the rear.

- Frequency response: 30–50,000 Hz
- Nominal impedance: 25 Ω



MKH 8050 The super-cardioid MKH 8050 will give higher attenuation of off-axis sound from the side than its cardioid sister model. It is a good choice for recording soloists, where the requirements for lateral acoustic separation are higher.

- Frequency response: 30–50,000 Hz
- Nominal impedance: 25 Ω



MZF 8000 is a new filter module for the MKH 8000 professional RF condenser microphone series. Especially in the broadcast and film industries, it effectively blocks interference caused by infrasound, such as low-frequency noises caused by wind and handling.

- Nominal impedance: 50 Ω



MZD 8000 The Digital Module for MKH 8000 is simply screwed onto the microphone head in place of the XLR module, turning the audio signal of the MKH 8020 (omni-directional), MKH 8040 (cardioid) and MKH 8050 (super-cardioid) into a digital one. The new digital module ensures that the warm, natural, yet fantastically clear and powerful sound of the MKH 8000 series is maintained in full quality along the entire signal chain. In contrast to conventional digitization, which uses a separate analog/digital converter at some stage in the chain, the Sennheiser MZD 8000 digital module eliminates cable losses and, most importantly, features a converter and surrounding circuitry that have been optimally matched to the microphone.

- Frequency response: 10–80,000 Hz

Microphones.

MKH Condenser Microphones.

The sophisticated MKH Series microphones incorporate Sennheiser technology into condenser mics of superlative quality. Used by recording studios, film and television production companies, and broadcast professionals all over, the MKH line provides a flexible array of polar patterns and sizes, all optimized for totally transparent, "colorless" sound reproduction.



MKH 50 RF condenser microphone with super cardioid pick-up pattern.

- Frequency response: 40–20,000 Hz
- Nominal impedance: 150 Ω



MKH 20 RF condenser microphone with omni-directional pick-up pattern.

- Frequency response: 12–20,000 Hz
- Nominal impedance: 150 Ω



MKH 60 Shotgun microphone with super cardioid/lobar pick-up pattern for use in film and location sound.

- Frequency response: 60–20,000 Hz
- Nominal impedance: 150 Ω
- Dimensions: d 25 x 280 mm



MKH 30 RF condenser microphone with figure-8 pick-up pattern.

- Frequency response: 40–20,000 Hz
- Nominal impedance: 150 Ω



MKH 70 Shotgun microphone with lobar pick-up pattern for use in film and location sound.

- Frequency response: 60–20,000 Hz
- Nominal impedance: 150 Ω
- Dimensions: d 25 x 410 mm



MKH 40 RF condenser microphone with cardioid pick-up pattern.

- Frequency response: 40–20,000 Hz
- Nominal impedance: 150 Ω



MKH 800 Dual capsule RF condenser microphone with switchable polar patterns.

- Frequency response: 30–50,000 Hz
- Nominal impedance: 150 Ω





MKH 800 TWIN Dual capsule RF condenser microphone with remote controlled polar patterns. By providing both capsule signals at the output, the polar pattern can be adjusted steplessly at the mixing desk during post production. Nextel and Nickel finish available.

- Frequency response: 30–50,000 Hz
- Nominal impedance: 150 Ω



MKH 416 Light weight shotgun microphone with super cardioid/lobar pick-up pattern for use in ENG and broadcasting.

- Frequency response: 40–20,000 Hz
- Output Impedance: 10 Ω balanced floating 8 Ω



MKH 418 S M/S shotgun microphone with super cardioid (M) and figure-8 (S) pick-up patterns for use in ENG and location sound.

- Frequency response: 40–20,000 Hz
- Nominal impedance: 25 Ω



CONSUMER ALERT

Most users do not need a license to operate a wireless microphone system. Nevertheless, operating a microphone system without a license is subject to certain restrictions: the system may not cause harmful interference; it must operate at a low power level (not in excess of 50 milliwatts); and it has no protection from interference received from any other device. Purchasers should also be aware that the FCC is currently evaluating use of wireless microphone systems, and these rules are subject to change. For more information, call the FCC at 1-888-CALL-FCC (TTY: 1-888-TELL-FCC) or visit the FCC's wireless microphone website at: www.fcc.gov/cgb/wirelessmicrophones

RF Wireless Systems. 5000 Series.

The state-of-the-art 5000 Series, with its innovative modular receiver design, exceptional flexibility, optional computer control and high performance transmitters, provides unsurpassed wireless performance.



SKM 5200-II As Sennheiser's flagship RF wireless model, the SKM 5200-II sets a new benchmark for stage and broadcast applications alike. Nine interchangeable microphone heads adapt the handheld transmitter to virtually any task at hand. The highest frequency agility and transmission reliability, durability, adjustable sensitivity, three-stage low-cut filter, backlit display and easy operation via a multi-function switch are further features of the SKM 5200-II. The transmitter body is available in nickel, black, and steel blue.

- Switching bandwidth: Up to 184 MHz
- Output power: 50 mW
- S/N ratio: $\geq$ 114 dBA



EM 1046-U The heart of multiple-frequency RF technology, the EM 1046 receiver system offers eight channels of pristine RF wireless audio.

Frequency groups are

- available between: UHF 450–960 MHz
- S/N ratio: ≥ 117 dBA



SK 50-A/SK 250 Tunable RF bodypack transmitters.

Frequency groups are

- available between: UHF 450–960 MHz
- Output power: 50 mW (SK 50-A)
250 mW (SK 250)
- S/N ratio: ≥ 117 dB (A)



SK 5212-II Extremely small bodypack transmitter with durable metal housing for broadcast and musical applications. New: Enhanced switching bandwidth with up to 184 MHz.

- Switching bandwidth up to 184 MHz
- Output power: typ. 50 mW, 10 mW, 10 mW Lol switchable
- S/N ratio: ≥ 110 dB (A)

RF Wireless Systems. 3000 Series.

The 3000 Series offers superb performance with durable, heavy-duty construction for touring and broadcast applications.



EM 3732-II/EM 3731-II Highest operational reliability with great convenience and comfort for the user! The wide switching bandwidth of up to 184 MHz and many connection options make these receivers the most flexible tools in the market. They feature a number of innovative functions, such as a digital audio output, high-contrast OLED display and extraordinarily intuitive operation via an icon-based menu. With the Ethernet connector, the receivers can easily be integrated into any network.

NEW



ASA 3000 Active 2 x 1:8 antenna splitter for multi-channel wireless microphone systems with up to 16 channels with twin receivers. DC power supplied to antenna boosters.

- Frequency range: 470–870 MHz



EK 3241 Miniature true diversity receiver designed for use with camcorders. Its exceptional frequency agility and reliability ensure flexible operation worldwide.

Frequency groups are

- available between: 450–960 MHz
- Switching bandwidth: 36 MHz



SKM 3072-U Handheld transmitter with up to 32 switchable channels. Supplied with super-cardioid mic head for vocals and close-miking. Also available: interchangeable super-cardioid microphone head for speech applications.

Frequency groups are

- available between: 450–960 MHz
- S/N ratio: ≥ 117 dB (A)
- Output power: 30 mW



SK 3063-U Pocket transmitter with up to 16 selectable frequencies. For use with clip-on mics or headworn microphones.

Frequency groups are

- available between: 450–960 MHz
- S/N ratio: ≥ 112 dB (A)
- Output power: 30 mW



SKP 3000 Plug-on transmitter, which converts any cabled microphone (even condenser micro-phones) for RF wireless operation.

Frequency groups are

- available between: 518–866 MHz
- S/N ratio: ≥ 114 dB (A)
- Output power: 30 mW

RF Wireless Systems. 2000 Series.

Whether theater, broadcast, live or at a convention: Sennheiser's 2000 series is the first choice of sound engineers and rental agencies. This versatile, flexible system lets you take sure control of complex stage events. When it comes to broadcasting, the 2000 series is your personal entry into the world of professional audio transmission.



SKM 2000 The hand-held transmitter of the 2000 Series shows its strength during use, in its performance, in its features: switchable transmission power, intuitive menu navigation, an easy-to-read graphic display make it convenient for daily use. The SKM 2000 is compatible with all evolution wireless capsules, including the MMK 965-1 true condenser capsule, whose wired version, e 965, has already proven to be a great success. Colors: nickel and black

- Frequency range: 516–865 MHz
- Switching bandwidth: max. 75 MHz
- Transmission power: 10, 30, 50 mW (US: 100 mW)



SK 2000 The compact SK 2000 bodypack transmitter is versatile and reliable during the wireless transmission of instruments and voice. Bass guitarists especially appreciate its excellent audio quality due to the enhanced frequency response (25–20,000 Hz). Three RF output powers (four in the US version) provide longer transmission ranges or more channels per frequency range.

- Frequency range: 516–865 MHz
- Switching bandwidth: max. 75 MHz
- Transmission power: 10, 30, 50 mW (US: 100 mW)



SKP 2000 The SKP 2000 plug-on transmitter with phantom powering makes wireless audio transmission from wired reporters' microphones possible. The graphic display makes adjusting and saving settings easy, even under poor light conditions. Its switchable output power turns the SKP 2000 into a strong companion during any mobile recording session.

- Frequency range: 516–865 MHz
- Switching bandwidth: max. 75 MHz
- Transmission power: 10, 30, 50 mW (US: 100 mW)



EM 2000

EM 2000 / EM 2050 The EM 2000 true diversity receiver is the heart of the 2000 Series. With 5 frequency ranges and a switching bandwidth of up to 75 MHz, the EM 2000 provides maximum flexibility. The Ethernet connection lets you control your system from your PC or Mac directly over the WSM (Wireless System Manager) software. The integrated active antenna daisy-chain outlet makes it possible to build up systems having up to 16 channels without requiring an external splitter.

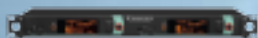


EM 2050



SR 2000

SR 2000 / SR 2050 When it comes to wireless monitoring, the 2000 Series is setting new standards. The switching bandwidth of up to 75 MHz and a switchable transmission power of 10, 30 and 50 mW (plus 100 mW in the US version) let you reach a maximum of reliability and flexibility. The built-in Ethernet interface provides ideal viewing of the monitoring system from your PC or Mac, plus perfect integration, even into complex wireless systems.



SR 2050



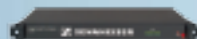
EK 2000 IEM This wireless monitoring bodypack receiver is extremely robust. The metal battery compartment cover is well-suited to the hard life on the stage. Adaptive diversity technology has also increased transmission reliability significantly. The earphone cable serves as a second antenna, which considerably reduces the number of drop-outs.

- Frequency range: 516–865 MHz
- Output power: 100 mW @32 Ω



EK 2000 It is nice when you can concentrate fully on the picture because you know the sound is reliable. This camera receiver allows you to do just that. Equipped with adaptive diversity, this camera receiver ensures reliable reception in five frequency ranges with up to 75 MHz switching bandwidth. The transmitter settings can be synchronized quickly from the EK 2000 using infrared technology.

- Frequency range: 516–865 MHz
- Switching bandwidth: max. 75 MHz



AC 3000 Active antenna combiner for creating 8-channel wireless monitoring systems.

- Frequency range: 470–870 MHz
- RF input power: max. 80 mW per input



AC 3200 Active antenna combiner for creating 8-channel wireless monitoring systems.

- Frequency range: 500–870 MHz
- RF input power: max. 250 mW per input

RF Wireless Systems.

evolutionwireless 500 Series.

The 500 Series is the top line of evolution wireless. Sound professionals and artists who work on the world's biggest stages rely on 500.

A wireless system at this price point cannot be more flexible and versatile.

500 Series Features

- Mac and PC controlled frequency management
- Ethernet port for Wireless Systems Manager (WSM) software
- Enhanced frequency bank management with up to 32 compatible frequencies
- Frequency ranges: 516-558, 566-608, 626-668, and 823-865 MHz



Vocal Set Raise your voice with the tour-proven wireless microphone and absolutely reliable sound transmission. Choose between three professional microphone heads (two dynamic and one condenser) from the renowned Sennheiser evolution 900 line.



Instrument Set Rocking the crowd has never been so easy or professional. The integrated control menu with guitar cable emulation, the RF/AF mute for multiple guitars and the integrated guitar tuner ensure that you have absolute control of your gig.



Presentation Set There is no better way to express yourself and impress your audience than with the professional 500 presentation set. The extremely small MKE 2 clip-on microphone is renowned for its highest sound quality and robustness.

RF Wireless Systems.

evolutionwireless 300 Series.

You Know You Can Set New Standards

The 300 Series is at its best at conferences, presentations and live events. Speakers and presenters love the crystal-clear sound of the microphones, and as a technician, you can rely on a flexible and versatile wireless system that gives you full control of your event.

300 Series Features

- Mac and PC controlled frequency management
- Ethernet port for Wireless Systems Manager (WSM) software
- Enhanced frequency bank management with up to 24 frequencies per bank
- Enhanced muting functions
- Frequency ranges: 516-558, 566-608, 626-668, 823-865 MHz



Vocal Set With the crystal-clear sound of the handheld microphone, you can make yourself heard right back to the last row. The microphone's mute function can be used for push-to-talk and push-to-mute offering you full control of your performance.



HeadSet The lightweight and comfortable headset microphone offers you total freedom to move during your speech or presentation. A special frequency response ensures a safe and clear sound transmission.



Set with clip-on microphone ME 2

Set with clip-on microphone ME 4

Presentation Set Make your speech or presentation state-of-the-art with the small clip-on microphone that is easy to wear and nearly invisible on stage. Its clear sound transmission gives you the freedom to move and act.

RF Wireless Systems.

evolutionwireless 100 Series.

You Know You Can Count On Breakthrough Sound. Thanks to its expanded bandwidth (42 MHz), 1680 switchable frequencies, and the perfect Sennheiser live sound, the 100 Series is the ideal choice for musicians and presenters, and best suitable for camera and wireless monitor applications.

100 Series Features

- Infrared interface for synchronization of transmitters
- Increased audio range
- More control options (menu)
- Enhanced frequency bank with up to 12 compatible frequencies per bank
- Frequency ranges: 516-558, 566-608, 626-668, and 823-865 MHz



Vocal Set Gone are the days when a singer had to shout into the microphone to be heard. The robust handheld transmitter delivers full first-rate live sound. You can choose from 5 exchangeable microphone heads (4 dynamic and one condenser).



Instrument Set Who says a guitarist always has to stand in one place? The 100 Instrument Set gives you the freedom to rock the crowd wherever you are on stage: no strings attached. Brand new with 100: the integrated guitar tuner makes a tuning device unnecessary.



HeadSet Regardless of whether you are a singer, actor, dancer or fitness trainer: With the special frequency response of this headset microphone, your voice will be heard at the very back in the last row.



Set with clip-on microphone ME 2



Set with clip-on microphone ME 4



4 Sets available with different system components



Presentation Set A professional quality standard that has proven itself for moderation and on stages alike. Impress your audience with a crystal-clear presentation. The small clip-on microphone offers excellent speech intelligibility with its special frequency response.

ENG Set Capture the right moment with the ENG Set for perfect sound transmission while filming. Four different sets are available including either a handheld transmitter or a body pack transmitter with an omni-directional or cardioid clip-on microphone.

Wireless Monitor Set The Wireless Monitor Set gives you complete control of your performance across the entire stage. The body pack diversity receiver with volume control is as easy to use as the stereo transmitter, which offers PC-controlled monitoring of multi-channel applications via the Wireless Systems Manager (WSM) software.

RF Wireless Systems.

freePORT™

With freePORT™, Sennheiser offers the ideal entry-level RF wireless systems – easy to use, durable and affordable. Simply insert the transmitter batteries, connect the receiver and you're ready to go! freePORT is ideal for applications such as garage band gigs, singers, presenters, a small-scale theater production, and a company presentation.

freePORT™ Vocal Set Assertive, punchy sound is the hallmark of the freePORT vocal set. It includes a handheld transmitter with dynamic capsule and a diversity receiver.

Handheld Transmitter

- Dynamic capsule, cardioid
- Frequency response: 80–18,000 Hz
- LED for battery power

Receiver

- Diversity
- Signal-to-noise ratio: > 95 dB (A)
- THD: < 1 %

freePORT™ Instrument Set

The instrument set impresses with durability, full-bodied sound and wide dynamics. It contains a bodypack transmitter with instrument cable and a diversity receiver, and is ideal for guitars or any other instrument with a jack output.

Instrument Transmitter

- Frequency response: 60–18,000 Hz
- MIC/Line switch
- LED for battery power

freePORT™ Presentation Set

The presentation set ensures excellent speech intelligibility for talks, presentations and small-scale theater productions. It consists of a bodypack transmitter, a diversity receiver, and an inconspicuous clip-on microphone with omni-directional pick-up pattern.

Bodypack Transmitter

- Frequency response: 60–18,000 Hz
- MIC/Line switch
- LED for battery power

Clip-on Microphone

- Natural sound
- Inconspicuous to wear

Infrared Systems. Infrared Audio Distribution Systems.

Suitable for public addresses, conferences, museums, exhibitions, translation and other applications. Sennheiser infrared wireless systems are an effective and convenient alternative to conventional hard-wired systems. With their unique amplitude and frequency modulation process they convey high-quality, dependable audio. Available in both narrow band (for multi-channel setups) and wide band (for exceptional sound quality) systems, Sennheiser infrared wireless is powerful and flexible enough for use in any setting.



Single/Two Channel Wideband Systems

SZI 1029 Large area emitter. Also available in white

- Transmission area: 12,500 sq. ft (single channel)
6,250 sq. ft (two channel)

SZI 1029-24 24-volt DC powered emitter.

SZI 1029-10 10 watt version for coverage up to 18,000 sq. ft.
Also available in white



Single/Two-Channel Wideband Systems

SZI 1015 Medium area DC powered emitter. Also available in white.

- Transmission area: 4,000 sq. ft. (single channel) 2,000 sq. ft. (Two channel)

SZI 1015-T Single-channel master modulator/emitter.

- Carrier Frequency: 2.3 MHz
- Transmission area: 4,000 sq. ft.



SI 30/SZI 30 Small area modulator/emitter or emitter only.

- Transmission area: 750 sq. ft. (single-channel), 375 sq. ft. (two-channel)
- Carrier frequencies: 2.3 MHz/2.8 MHz



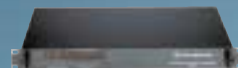
SI 1015 Two-channel wideband modulator

- Carrier frequencies: 2.3 MHz/2.8 MHz
- Frequency response: 20–15,000 Hz



RI 150 Ultralight mono stethophone receiver.

- Carrier Frequency: 2.3 MHz
- Frequency response: 18–18,000 Hz
- Powered by BA151 rechargeable battery



Multi-Channel Systems

SI 29-5 Single rack-space modulator transmits up to five narrowband channels. May be daisy-chained up to 32 channels.

- Carrier frequencies: 55–1,335 kHz



L151-10/NT Charger for ten RI 150 receivers



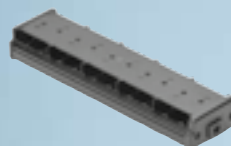
HDI 1029 PLL 16 A lightweight, easy-to-use stethophone receiver with 16 channels. Also available as PLL 16-H version, (channels 16-31)

- Carrier frequencies: 55–1,335 kHz
- Powered by BA90 rechargeable battery



HDI 830 Professional stereo or two-channel receiver with volume control

- Carrier frequency: 2,3/2,8 MHz
- Frequency response: 50–16,000 Hz
- Automatic On/Off



L92-10/NT Charger for ten BA90 batteries. Also available as L92-10/NT for twenty BA90 batteries.



RI 830 S Professional stereo or two-channel receiver with 3.5mm jack-plug (Induction loop available as accessory)

- Carrier frequency 2.3/2.8 MHz
- Frequency response 50–16,000 Hz
- Powered by BA300 rechargeable battery



EKI 1029 PLL 16/PLL 32 Slim, compact multi-channel bodypack receiver with 16 or 32 channels. Also available as PLL 16-H version (channels 16-31). Offers 3.5mm audio input.

- Carrier frequencies: 55–1,335 kHz
- Powered by BA1209 rechargeable battery



L300-10 Charger for HDI 830 or RI 830 S receivers. Also charges an additional ten BA300 batteries.



L1029-20/NT Carrying case and charger for twenty EKI 1029 receivers.

L1029-75/NT Carrying case and charger for seventy five EKI 1029 receivers.

Audiology. Assistive Listening Devices.

Drawing from Sennheiser's longstanding audio expertise, these products bring exceptional sound quality, infrared and RF wireless technology, and precision engineering to the assistive listening market.



Set 900 is a lightweight mobile sound booster and cordless infrared stereo listening system. It is ideal for use at public performance venues via an installed infrared system or in home with TV sets, hi-fi systems or radios. Sound and speech can be tailored to one's hearing. Additionally, two switchable microphones integrated in the receiver enhance conversation and enable you to remain aware of ambient sounds while watching TV.

- Transmission frequencies: 2.3 MHz/ 2.8 MHz
- Reception frequencies: 2.3 MHz/ 2.8 MHz / 95 kHz
- Frequency response: 50–16,000 Hz
- Range (Transmitter): up to 40 ft.



Set 840-TV The stereo Set 840-TV allows you complete freedom of movement throughout the house. Thanks to modern radio technology you can move around within a radius of 300 ft. – in the home or in the garden – and still enjoy television news, audio books or music in great sound quality. There are three hearing settings on the transmitter, so you can choose the best for optimum speech intelligibility: volume compression and treble emphasis can be activated and combined, the treble emphasis can also be adjusted individually. Convenient: the receiver turns on automatically when it is put on. Even more convenient: the flexible ear pads fit exactly and are very comfortable to wear.

- Carrier frequencies: 925.95 MHz/ 926.8 MHz/ 927.5 MHz
- Frequency response: 50–16,000 Hz
- Range: up to 300 ft. or 98 ft.

NEW



Set 830-TV The Set 830-TV is a stereo TV listening system. The infrared model enables listening anywhere in the room without the need for cables and without 'disturbing others. Directly connectable to a TV, hi-fi system or radio, the Set 830-TV guarantees outstanding sound quality which you can customize to your own hearing with for example, individual treble emphasis. What's more, the receiver is extremely lightweight and, with its perfect-fitting ear pads, offers maximum comfort when worn. Ergonomic controls and visual signals for the individual control processes mean that operation of the Set 830-TV couldn't be easier.

- Carrier frequencies: 2.3 MHz/ 2.8 MHz
- Frequency response: 50–16,000 Hz
- Range: up to 40 ft.



Set 840 S – Specially designed for wearers of hearing aids, the Set 840 S transmits stereo sound via a radio frequency connection from the television or hi-fi system up to 100 m – even through walls. The signal is received clearly and precisely by a hearing aid with activated telecoil via the induction loop. Alternatively, normal headphones or induction couplers can be connected to the receiver. After use the receiver can be placed in the charging cradle facing either way.

- Carrier frequencies: 925.95 MHz/ 926.8 MHz/ 927.5 MHz
- Frequency response: 50–16,000 Hz
- Range: up to 300 ft. or 98 ft.



Audioport A 200 The A 200 audioport is a good alternative for people who would like amplified sound occasionally, but do not want to wear a hearing aid. Two integrated microphones transmit voices and sounds in detail and amplified to the ears. Furthermore, the A 200 is very easy to use. The on/off switch and the volume control are positioned directly on the receiver. And when it is not needed, it is simply put in the cradle to recharge.

- Frequency response: 200–12,000 Hz
- Microphones: Pre-polarized condenser mics, stereo

NEW



Set 830 S The Set 830 S is essentially the same as the Set 840 S, but does not transmit a radio frequency signal, it transmits an infrared signal up to 12 m within a room. The signal is transmitted from the receiver to the hearing aid with activated telecoil via the induction loop supplied with the set. You can choose from three hearing settings on the transmitter and adjust compression and treble emphasis to optimise the speech intelligibility and sound quality. Volume and balance control are conveniently located on the receiver.

- Carrier frequencies: 2.3 MHz/ 2.8 MHz
- Frequency response: 50–16,000 Hz
- Range: up to 40 ft.



EZT 3011 The EZT 3011 is an induction loop for use with the RI 830 S and RR 840 S receivers. It transmits the audio signal from the receiver to hearing aids with an induction coil. You can attach the receiver directly to the induction loop and wear it. The EZT 3011 is equipped with a 3.5 mm stereo jack plug.



EZT 3012 The EZT 3012 is an induction loop for use with Sennheiser's wireless receivers. It transmits the audio signal from the receiver to hearing aids with an induction coil. The induction loop is equipped with a 40 cm long connection cable with a 3.5 mm stereo jack plug.

NEW

Audiology.

Audiometric Headphones.

Hearing aid acousticians and ENT doctors have to be able to rely on modern diagnostic technology and so they expect the highest quality – especially when diagnosing hearing problems with the aid of an audiometer.

Sennheiser offers specially developed headphones that relay the test sounds produced in different frequencies to the patient's ears accurately and exactly: for precise measurement readings.



HDA 280 Closed, dynamic headphones for use with audiometers, with fold-up and swivelling earpieces for space-saving transport.

- Frequency range: 20–20,000 Hz
- Nominal impedance: 37 Ω
- Tested and certified by the Physikalisch-Technische Bundesanstalt (PTB) (German institute for standards) in accordance with IEC 60645-1



HDA 200 Closed dynamic audiometric headphones designed for extended high-frequency testing.

- Frequency range: 20–20,000 Hz
- Nominal impedance: 40 Ω
- Reference headphones listed in ISO standards ISO 389-5 and ISO 389-8
- Tested and certified by the Physikalisch-Technische Bundesanstalt (PTB) (German institute for standards) in accordance with IEC 60645-1

Aviation.

Aviation Boomsets.

Bringing Sennheiser technology to the air, these products provide the finest aviation communication available. The active noise cancellation headsets, featuring Sennheiser's exclusive NoiseGard™ attenuation circuitry for hearing protection and safety, are already in use by professional and private aviators throughout the world. The headsets equipped with a Sennheiser electret microphone are perfect for hands-free operation.

Active Noise Cancellation Headsets



HMEC 26 NoiseGard™ series A lightweight supra-aural closed-cup headset designed to actively reduce cockpit noise. The HMEC 26-T Version offers a Talk-Through function.

Headphones

- Frequency response: 20–14,000 Hz
- Active noise reduction: typ. 18 dB between 100–300 Hz

Microphone

- Type: BKE 46 prepolarized condenser, noise-compensated
- Frequency response: 300–6,000 Hz

Available with various connectors,
ETSO C57a & C58a, TSO-C139



HMEC 46 NoiseGard™ series very lightweight and comfortable open boomset with NoiseGard active noise compensation. Different connector and powering versions are available to suit all possible cockpit configuration.

Headphones

- Frequency response: 20–14,000 Hz
- Active noise reduction: 15 dB +/- 3 dB between 100–500 Hz

Microphone

- Type: BKE 46 Prepolarized condenser capsule, noise-compensated
- Frequency response: 350–6,000 Hz (RTCA/DO-214)

ETSO C57a & C58a, TSO C139



HMEC 460 Series Closed-cup headset with NoiseGard™ active noise compensation and excellent passive attenuation. Ideal for the loud cockpits of propeller-driven and turboprop aircraft. With volume control, audio-in, cellphone-in.

Headphones

- Frequency response: 45–15,000 Hz
- Noise Compensation (active and passive): 25–40 dB

Microphone

- Type: BKE 45-1 Prepolarized condenser, noise-compensated
- Frequency response: 300–5,000 Hz
- 10 year warranty

HMEC 350 *NoiseGard™* series

Closed-cup headset with NoiseGard™ active noise compensation. Ideal for the loud cockpits of helicopters, propeller-driven and turboprop aircraft. With volume control, mono/stereo switch and flexible microphone boom.



Headphones

- Frequency response: 45–15,000 Hz
- Noise Compensation (active und passive): 25–40 dB

Microphone

- Type: BKE 45-1 Prepolarized condenser, noise-compensated
- Frequency response: 300–5,000 Hz (RTCA/DO-214)

Available with various connectors, FAA & JAA TSO approval C57a, C58a.



The New Generation:

Due to their very attractive and foldable design the HME 95 and HMEC 250 are the first models of a new design generation of Sennheiser General Aviation Headsets.

HMEC 250 The HMEC 250 is an entry headset with active noise compensation NoiseGard™ 2.0. With volume control, audio-in, cellphone-in.

Headphones

- Frequency response: 8–28,000 Hz (headphone) 300–5,000 Hz (talk-through)
- Nominal impedance (passive): 150 Ω mono, 300 Ω stereo
- Active: 600 Ω mono, 1200 Ω stereo

Microphone

- Type: BKE 46 Prepolarized condenser, noise-compensated
- Frequency response: 300–6,000 Hz (headphone)

HME 95 The HME 95 is an entry level headset with passive noise attenuation that is good value for money. With volume control, audio-in, cellphone-in.

Headphones

- Frequency response: 8–28,000 Hz
- Nominal impedance (passive): 225 Ω mono, 300 Ω stereo

Microphone

- Type: BKE 46 Prepolarized condenser, noise-compensated
- Frequency response: 300–6,000 Hz



Passive Noise Cancellation Headsets

HME 26 Series A lightweight headset with closed headphone systems. The new models are extremely comfortable because of the especially soft earpads.

Headphone

- Frequency response: 20–14,000 Hz

Microphone

- Type: BKE 46 prepolarized condenser, noise-compensated
- Frequency response: 350–6,000 Hz (RTCA/DO-214)

Available with various connectors, ETSO C57a & C58a, TSO C139



HME 110 The special edition featuring an elegant high-tech finish, the HME 110 pilot's headset is ideal for use in propeller and turbo-prop aircraft. This headset is extremely comfortable thanks to soft earpads and an optimized headband.

Headphones

- Frequency response: 45–15,000 Hz

Microphone

- Type: BKE 45-1 Prepolarized condenser, noise-compensated
- Frequency response: 300–5,000 Hz
- 10 year warranty (RTCA/DO-214)

FAA & JAA TSO C57a, C58a

HME 46 Series These boomsets successfully combine proven functionality with the latest audio technology and maximum user comfort. The HME 46 incorporates peak level protection.

Headphones

- Frequency response: 20–14,000 Hz

Microphone

- Type: BKE 46 Condenser, prepolarized, noise-compensated
- Frequency response: 350–6,000 Hz

ETSO C57a & C58a, TSO C139



HME 100 Passive, closed-cup aviation headset – the lower-cost alternative to the HMEC 350 NoiseGard™ model. With volume control and flexible microphone boom. Mono/stereo compatible.

Headphones

- Frequency response: 45–15,000 Hz

Microphone

- Type: BKE 45-1 Prepolarized condenser, noise-compensated
- Frequency response: 300–5,000 Hz (RTCA/DO-214)

FAA & JAA TSO C57a, C58a



HME 43 Pilot's headset with closed ear protector headphones and ultra noise-cancelling microphone for use in airline jets and business jets.

Headphone

- Frequency response: 200–6,000 Hz
- Nominal impedance: 300 Ω

Microphone

- Type: BKE 43 Prepolarized condenser, noise-compensated
- Frequency response: 350–3,400 Hz



Headsets for broadcast and communication solutions.



HMD 280 Professional Professional headset for communications in high-noise environments. Its dynamic, super-cardioid microphone has been optimized for close talking distances.

Headphones

- Frequency response: 8–25,000 Hz (–10 dB/1 kHz)

Microphone

- Type: dynamic, super cardioid
- Frequency response: 50–13,500 Hz



NEW



HMD 26 Headset for broadcasting applications in noisy environments. Dynamic microphone with highly linear frequency response. Also available in monaural (HMD 26-600S) variant.

Headphones

- Frequency response: 20–18,000 Hz
- Nominal impedance: 50 Ω mono/100 Ω stereo and 300 Ω mono/600 Ω stereo

Microphone

- Type: BMD 424, dynamic (hyper-cardioid)
- Frequency response: 40–16,000 Hz



HMD 26-600S Headset for broadcasting applications in noisy environments. Dynamic microphone with highly linear frequency response. Also available in binaural (HMD 26).

Headphones

- Frequency response: 20–18,000 Hz
- Nominal impedance: 600 Ω mono

Microphone

- Type: BMD 424, dynamic (hyper-cardioid)
- Frequency response: 40–16,000 Hz

NEW



HMD 281 Professional Single-sided professional headset for talkback situations in film and TV applications. Its dynamic, super-cardioid microphone has been optimized for close talking distances.

Headphones

- Frequency response: 8–25,000 Hz (–10 dB/1 kHz)

Microphone

- Type: dynamic, super cardioid
- Frequency response: 50–13,500 Hz



NEW



HMDC 26 Headset for broadcasting applications in extremely noisy environments. Equipped with NoiseGard active noise compensation. Dynamic microphone with highly linear frequency response.

Headphones

- Frequency response: 20–18,000 Hz
- Nominal impedance: 50 Ω mono/100 Ω stereo and 300 Ω mono/600 Ω stereo

Microphone

- Type: BMD 424, dynamic (hyper-cardioid)
- Frequency response: 40–16,000 Hz



HME 26 Lightweight headsets for radio and television studios for particularly high sound pressure levels. The microphone features excellent acoustic performance, with linear frequency response and high feedback rejection. Also available as monaural version. (HME 26-600 S)

Headphone

- Frequency response: 20–14,000 Hz

Microphone

- Type: Prepolarized condenser, noise-compensated
- Frequency response: 350–6,000 Hz (RTCA/DO-214)
- Available with various connectors, ETSO C57a & C58a, TSO C-139

NEW



HME 26-600S Lightweight headsets for radio and television studios for particularly high sound pressure levels. The microphone features excellent acoustic performance, with linear frequency response and high feedback rejection. Also available as binaural version (HME 26).

Headphone

- Frequency response: 20–18,000 Hz
- Impedance: 600 Ω mono

Microphone

- Type: BKE 4-2 pre-polarized condenser microphone, omni-directional
- Frequency response: 40 Hz–16,000 Hz

NEW



HME 26-4 Headset for broadcasting applications in noisy environments. The microphone offers broad frequency response for natural speech reproduction with excellent feedback rejection.

Headphones

- Frequency response: 20–18,000 Hz
- Nominal impedance: 50 Ω mono/100 Ω stereo and 300 Ω mono/600 Ω stereo

Microphone

- Type: BKE 4-4, pre-polarized condenser microphone (cardioid)
- Frequency response: 40–20,000 Hz

NEW



HMD 46/HME 46 The HME 46 and HMD 46 series headsets are ideal for air traffic control. The headsets are equipped with ActiveGard™, which protects controllers from the effects of an acoustic burst.

Headphones

- Frequency response: 20–14,000 Hz
- Nominal impedance: 300 Ω

Microphone

- Type: BMD 46-413 dynamic (HMD 46) condenser or BKE 46 prepolarized condenser, noise-compensated (HME 46)
- Frequency response: 100–12,000 Hz (HMD 46) 100–15,000 Hz (HME 46)



HME 43-3/HME 43-3S Entry-level headsets for Air Traffic Control (ATC) in monaural and binaural designs.

Headphones

- Frequency response: 100–6,000 Hz
- Nominal impedance: 150 Ω mono/300 Ω stereo

Microphone

- Type: BKE 43 pre-polarized condenser microphone
- Frequency response: 400–4,500 Hz

NEW

Information Systems.

Tourguide 2020-D-US Unique Guided Tour System.

The Tourguide 2020 system allows a tour leader to speak at a normal conversational level and be clearly heard and understood by an entire group – even in high-noise areas! The system consists of a wireless microphone, any number of receivers, and a convenient charging and carrying case. The case makes the system extremely portable, allowing you to take the reliable, interference-free system with you!



HDE 2020-D-US Makes sure that everyone will understand you: no longer will your audience have to carry any more equipment than is absolutely necessary. This truly unique device integrates both the receiver and headphones.

- Channels: 6 (configurable to 8)
- Frequency range: 926–928 MHz



EK 2020-D-US The rugged and versatile bodypack receiver can be used with headphones or an induction neckloop (for telecoil-equipped hearing aids).

- Channels: 6 (selectable)
- Frequency range: 926–928 MHz

NEW



SK 2020-D-US The bodypack transmitter, when used with an HS 2 headworn microphone, will give you total freedom of movement. You will have both hands free to describe an object, make a presentation and express your point.

SK 2020-D-US

- Channels: 6 (selectable)
- Frequency range: 926–928 MHz

HS 2-ew

- Nominal impedance: 1 Ω
- Frequency response: 20–20.000 Hz $\pm$ 3 dB

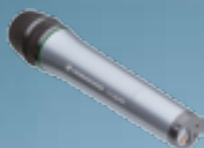


RF Wireless Systems. 2020-D-US.

Sennheiser digital RF systems offer high-quality, reliable wireless assistive listening and language transmission for theaters, houses of worship, courtrooms, conferences, museums, and much more! With up to eight available channels in the license-free ISM band (926 - 928 MHz), the system is extremely flexible, quick to configure and easy to operate.

SKM 2020-D-US The handheld transmitter is the easiest way to address your audience. Furthermore, if a participant has a question, just hand over the microphone and the entire group will hear clearly. The transmitter is exceptionally durable and easy to operate.

- Channels: 6 (selectable)
- Frequency range: 926–928 MHz (US)



SR 2020-D-US Rack-mountable transmitter features professional XLR-3 input for either mic or line level input. 6 channels for combined application mobile/stationary or 8 channels for stationary applications can be set-up.

- Channels: 6 for mobile receivers
8 for stationary use
- Frequency range: 926–928 MHz



EZL 2020-20 L The convenient charger case acts as both the storage case for all equipment and charging station for the TourGuide receivers and transmitter. The charger accommodates up to twenty receivers, as well as a transmitter.

The Copy button is another impressive feature of the charging case. Just press it once, and all the other receivers in the case are immediately set to the same selected channel.



L 2021-40 Rack-mountable charger has been specially designed for stationary applications. It holds up to 40 receivers and offers automatic quick-charge to be ready for the next event. For instant channel configuration, the green Copy button sets all receivers to the same channel. The Ethernet interface of L 2021-40 allows networking of up to 125 chargers with up to 5000 receivers.



CC 2021 Control software offers users and service staff easy channel set-up and monitoring. Up to 125 chargers can be controlled via Ethernet. Any number of receivers or chargers can be grouped and configured simultaneously on your PC.





NEW

EK 2020-D-US The rugged and versatile bodypack receiver can be used with headphones or an induction neckloop (for telecoil-equipped hearing aids).

- Channels: 6 (configurable to 8)
- Frequency range: 926–928 MHz

Information Systems. GuidePort.

GuidePort is a revolutionary new digital tourguide and information system for both indoor and outdoor use. Visitors can choose their own route through an exhibition or theme park and this system provides them with the audio information relevant to the area they are in or the exhibits they see.



GP EK 3202-4 The digital GuidePort RF wireless diversity receiver supplies the visitors of a theme park or exhibition with the selected audio program. It features four buttons for adjusting the volume and repeating or stopping the audio information. The receiver can store up to 20 hours of audio information and is fitted with an anti-theft feature. The anti-theft alarm is triggered by an identifier and produces a loud alarm sound of approx. 104 dB.



GP EK 3202-5 Similar to the GP EK 3202-4 with the additional 'magnifier' key, which allows access to additional information.



GP EK 3202-0 Similar to the GP EK 3202-4 with an additional full numeric keypad that permits manual keying of specific locations or switching to alternate languages or levels.

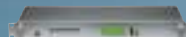


HDE 2020-D-US Makes sure that everyone will understand you: no longer will your audience have to carry any more equipment than is absolutely necessary. This truly unique device integrates both the receiver and headphones.

- Channels: 6 (configurable to 8)
- Frequency range: 926–928 MHz



GP SK 3202 The mobile transmitter together with a wireless microphone allow you to address visitors as a separate group, e.g. during guided tours of towns or plants or your exhibition. Other guidePORT users do not receive the transmission.



GP SR 3200-2 The cell transmitter stores the audio information that is transmitted to visitors. Pre-produced digital audio is stored as flash memory, while real time analog audio sources, such as films or live shows, are fed to the GP SR 3200-2 via configurable inputs.



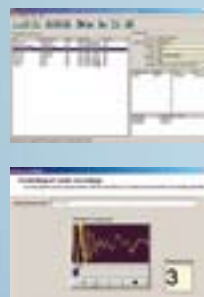
GP ID 3200 Identifier for automatically triggering audio information for visitors. The range and trigger mode can be chosen individually. The inconspicuous transmitter is available in both indoor (as pictured) and specially protected outdoor versions.



GP L 3202-10 Charger unit for up to ten GuidePort receivers.



GP 03 M Open, single-sided clip-on headphone for the GuidePort receiver.



Announcement Manager The Announcement Manager handles any type of announcement at an exhibition or theme park. It is possible to exclusively address selected groups, languages or areas or to use this module as a service channel for the staff. The Manager handles both pre-recorded messages and spontaneous announcements recorded on the spot.



GP 03 Open, dynamic clip-on headphones for the GuidePort receiver.



Statistics Manager The Statistics Manager allows the organizers of an exhibition or theme park to gather additional information about visitor behavior.

Conference Systems. Wireless Conference System.

WiCOS is an advanced, flexible wireless conference system that transmits in both the license-free 2.4 and 5 GHz ranges. WiCOS offers unmatched stability and immunity from interference, with added encryption options for enhanced security. With an operating time of more than 20 hours and the ability to integrate up to 16 interpretation channels, WiCOS is the ideal solution for standard discussion systems, as well as demanding conference applications.



WiCOS D The basic version of the WiCOS delegate unit for discussion systems. Features include a detachable gooseneck microphone, built-in loudspeaker, two headphone connectors with individual volume controls and the prominent MIC on/off key with status-LED. Power supply via Lithium-Ion battery pack.

NEW



NEW

WiCOS C The chairman unit for basic discussion systems. Features include a detachable gooseneck microphone, built-in loudspeaker, two headphone connectors and the MIC on/off key with status-LED. In addition, the WiCOS C offers two function keys, as well as two control keys. Power supply via Lithium-Ion battery pack.



NEW

WiCOS DV Delegate unit for conference systems with voting and/or interpretation. Features include a detachable gooseneck microphone, built-in loudspeaker, two headphone connectors with individual volume controls, channel selection with two OLED displays and MIC on/off key with LED. The DV unit also offers three voting keys. Power supply via Lithium-Ion battery pack.



WiCOS CV Chair unit for conference systems with voting and/or interpretation. Features include a detachable gooseneck microphone, built-in loudspeaker, two headphone connectors, channel selection and MIC on/off key with LED. In addition, the CV offers two OLED displays for voting, volume or media control; three voting keys; and two additional control keys. Power supply via Lithium-Ion battery pack.

NEW



WiCOS AP The wireless access point is the center of the WiCOS system and the interface to the SDC 8200 system. It features three antennas with an operating radius of up to 100 ft. in the license-free frequency range of 2.4 GHz or 5 GHz. Additional features include three status LED's, an Ethernet connection for configuration, as well as options for wall, tripod or table mounting.

NEW



WiCOS L-6 Rack-mountable charger tray for six WiCOS BA battery packs.

NEW

Conference Systems. SDC 8200 Digital Conference and Interpretation System.

The premier conference solution that offers the benefits and performance of digital communication management. Extremely flexible and readily expandable, SDC 8200 is an ideal choice for any conference and interpretation application, from small conferences to large congresses.



SDC 8200 D The basic version of the SDC 8200 delegate unit features a gooseneck microphone, built-in loudspeaker, headphone socket, MIC key and LED status display. Three voting keys for electronic voting: Yes, Abstain, No. Also available as SDC 8200 C chairman's unit.



SDC 8200 DC This delegate unit has been designed for two users and features two separate headphone sockets with volume controls and channel selection keys for listening to different language channels. Three voting keys for electronic voting: Yes, Abstain, No. Also available as SDC 8200 CC chairman's unit.



SDC 8200 DV A delegate unit for one user, featuring five voting keys, a slot for the personal identification chip card reader, plus a graphical display unit for messages and voting result display. Also available as SDC 8200 CV chairman's unit.



SDC 8200 AO This optional audio interface can be connected to the central unit, providing the floor language channel plus eight interpreted language channels for connecting recording equipment or infrared transmission systems.



SDC 8200 ID The interpreter unit has been designed according to international ISO standards. It features a headphone connector, volume and tone controls, display, A/B output channel selection and three relay-preset keys for selection of incoming languages. Alternatively, a headset can be used in place of the built-in gooseneck microphone.



SDC 8200 Software The software makes it easy for conference managers to organize the speeches and contributions from participants throughout the hall. Depending on the license package selected, the following options are available:

- Microphone control with seating plan
- Microphone control via name list
- Participant database
- Voting module
- Agenda administration
- Graphic display of voting results
- Print-out of voting results via network slave PCs
- Chip card programming
- Text messaging
- Interpreter configuration
- Conference control via network slave PCs



SDC 8200 CU The heart of every system: The central unit powers and controls up to 120 delegate units. It features control functions and the connectors required for the delegate units, additional audio sources, monitoring headphones, interpretation management of up to 28 channels, camera control and system expandability with additional SDC 8200 CU's.



SDC 8200 SYS-M This configuration and control software is designed for use with the SDC 8200 CU-M, making it ideal for small and mid-size conferences of up to 50 participants. It offers the same functionality with voting, database and agenda options as SDC 8200 conference software.



SDC 8200 CU-M This central unit powers and controls up to 50 delegate and chair units. Interpretation management for up to four channels, as well as media and camera control interfaces are included.

Neumann.Berlin

Microphones



They are regarded as classic studio microphones for vocal and instrumental recording, although their possible fields of application are much more extensive. Many Neumann models have become milestones in the history of audio technology.



TLM 49 Studio microphone with a retro look. Warm sound, optimized for vocal recordings. The capsule is derived from that of the legendary U 47 and M 49. Set includes elastic suspension.



Neumann.Berlin

Large-Diaphragm Microphones.

"TLM" Series: The transformerless output circuitry ensures extremely high dynamic range, accurate handling of all frequencies and an output sufficient to drive even the longest cable runs. Like traditional transformers, it provides good common mode rejection, and prevents RF interference that could affect the balanced audio signal. "U" Series: The linear solid-state capsule amplification of a field effect transistor is combined with the classic character of a transformer-balanced output stage.



TLM 67 A contemporary development of the legendary U 67. The K 67 capsule and the new circuit design closely reproduce the U 67 sound characteristics. Three directional characteristics, pre-attenuation and low-cut filter. Unique Neumann dual-color design.



TLM 102 The TLM 102 defines a new generation of Neumann studio microphones. It is ideal for applications in home recording and broadcasting, especially for vocals (high speech intelligibility), acoustic guitars, percussion, drums and recording guitar amplifiers (high max. SPL).



NEW



TLM 103 The standard for home recording and the music industry. This mic is for anyone who, despite budget constraints, does not want to do without the true Neumann sound. Cardioid directional characteristic and very low self-noise. Also available as a studio set, including elastic suspension, and as a stereo set.





TLM 170 R The first Neumann mic with transformerless technology, featuring 5 directional characteristics, selectable at the mic or remotely. Pre-attenuation and low-cut filter. Transparent, natural sound quality. Excellent sound pressure handling makes this mic ideal for recording wind instruments, for example. Also available as a stereo set.



Neumann.Berlin Tube Microphones.

Neumann's modern approach to classic tube-amplified design combined with state-of-the-art transformerless output ensures extremely high dynamic range, accurate handling of all frequencies and an output sufficient to drive even the longest cable runs.



TLM 193 A large-diaphragm mic reduced to the essentials, with no compromise in quality. Neutral, transparent sound. Featuring a cardioid directional characteristic and a classic design. Includes swivel mount.



M 147 Tube Neumann tube sound with a cardioid directional characteristic and a classic design. The double-diaphragm capsule is derived from that of its legendary predecessors, the U 47 and M 49. Complete set in a high-quality aluminum case, including power supply, swivel mount and cables.



U 87 Ai The Neumann classic. It is the world's most widely used large-diaphragm condenser microphone. Three directional characteristics and switchable pre-attenuation ensure suitability for a wide range of applications. Also available as a stereo set in an aluminum case, incl. elastic suspensions.



M 149 Tube Universal high-end tube microphone, nine directional characteristics, 7-position low-cut filter. The capsule is derived from that of the legendary U 47 and M 49. Complete set in a high-quality aluminum case, including power supply, elastic suspension and cables.



U 89 i The 5 directional characteristics, two-level low-cut filter and switchable pre-attenuation provide maximum flexibility.



M 150 Tube A redesigned classic with new circuit technology and correspondingly low self-noise. Like the legendary M 50, it is ideal for orchestral recording. Complete set in a high-quality aluminum case, incl. power supply, elastic suspension and cables. Also available as a stereo set.



USM 69 i Compact switchable stereo microphone for MS and XY stereophony, with freely adjustable pickup angles and selectable directional characteristics.



Legend of symbols on page 129

Neumann.Berlin

Digital Microphones.

With the Solution-D system, Neumann has now succeeded in bringing the dynamic range and signal fidelity of the best analog microphones into the digital realm. This means that, for the first time, the whole audio production chain is entirely digital.



TRUE NEUMANN SOUND:

The legendary Neumann sound in the digital realm for use with AES/EBU, S/PDIF or AES42 standards.



TRUE CONVERSION:

The guarantee of having one of the best A/D converters available.



TRUE TO THE ORIGINAL:

The satisfaction of recording the uncolored original, with no „bottlenecks“ between the capsule and the recording system.



TRUE TIME SAVINGS:

Reduced time requirements and personnel costs, particularly due to faster post-production and shorter setup times for live concerts.



TRUE HANDLING SAFETY:

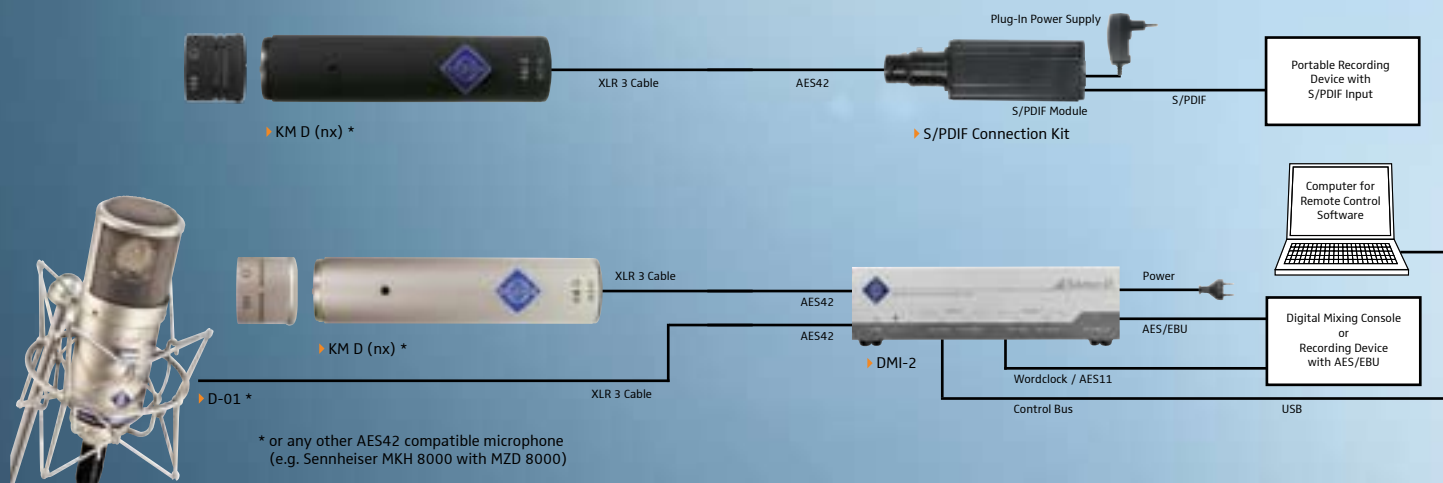
Anti-clipping processing ensures handling safety, and reduces stress in the studio and in live situations.



TRUE ECONOMY:

Lower investment costs, since separate A/D converters and preamps are no longer needed. This also means space and weight savings (e.g. in the OB van).

TYPICAL CONFIGURATIONS OF A DIGITAL SYSTEM:





D-01 With its 15 different remotely controlled directional characteristics and numerous additional features, the D-01 can be optimally adapted to almost any recording situation. It has a newly developed capsule, and is valued by users particularly for its hitherto unknown transparency and fidelity to detail. Also available as a complete mono or stereo set in a high-quality aluminum case, including elastic suspension, DMI-2 interface, RCS software and all necessary cables.



TLM 103 D The analog version of the TLM 103 D has for many years played a key role in ambitious project and home recording studios, and has made the Neumann sound available to a wider group of dedicated audio engineers and musicians. The TLM 103 D provides all of the sound features of its analog counterpart, as well as the advantages of completely digital circuit technology. TLM 103 D Starter Sets include the microphone in nickel, an elastic suspension and a Connection Kit.



KM D With the KM D microphones, the well-known, successful 180 miniature microphone series enters the digital domain. In the analog realm the KM 184 in particular is regarded as a standard for miniature condenser mics, and is one of the best-selling of all Neumann microphones. The KM D microphones have a modular construction, allowing the output stage to be combined with capsules having eight different directional characteristics. KM D Starter Sets include a KM 184 D in Nextel with clip, windscreen and a Connection Kit for AES/EBU or S/PDIF.

Miniature Microphone

[Passive Capsule Head* + Output Stage]

KK 183 + KM D = KM 183 D:

Omnidirectional, diffuse field equalized

KK 184 + KM D = KM 184 D: Cardioid

KK 185 + KM D = KM 185 D: Hypercardioid

KK 120 + KM D: Figure-8

KK 131 + KM D: Omnidirectional, free field equalized

KK 133** + KM D:

Omnidirectional, diffuse field equalized

KK 143 + KM D: Wide angle cardioid

KK 145 + KM D:

Cardioid with low frequency roll-off

* The KK... capsule heads can be used as well as with the analog KM A output stage.

** incl. SBK 133



DMI-2/DMI-8 & RCS Software

The DMIs are two-/eight-channel devices which interface the AES42 data format supplied by the microphone into an AES/EBU signal. The DMIs are operated via the Neumann RCS remote control software. The RCS is installed on a PC or Mac, which is connected to the DMI via a USB port. If a large number of microphones is used, several DMIs can be cascaded. In addition to word clock input, the DMIs have an internal word clock generator. The DMI-8 offers several possibilities for an easy integration in audio networks.

Available soon:

- Portable 2-Channel-DMI
- MCA Multichannel Audio Interface to connect up to 8 DMI-8



Connection Kit
AES/EBU or S/PDIF The Connection Kits serve to supply power to digital microphones, which are in accordance with the AES42 standard. The microphone audio signal is made available at the Connection Kit output in S/PDIF or AES/EBU format, depending upon the model. The remote control and synchronization capabilities of the AES42 standard cannot be used with the Connection Kit.

Neumann.Berlin

Vocal Microphones.

The legendary Neumann sound takes to the stage! The high acoustic resolution and smooth frequency response of KMS microphones and KK capsules ensure that artists have ideal control of their stage performances at all times.

Neumann.Berlin

Shotgun Microphones.

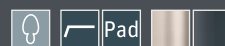
Neumann shotgun mics provide a high level of directivity that remains within the acceptance angle, independently of the frequency. Thus the apparent tonal balance will not change when a sound source, such as an actor, moves within this area.



KMS 104* (plus) With a cardioid directional characteristic, the KMS 104 excels at suppressing sounds originating from 180° behind the microphone. The KMS 104 plus is optimized for female voices. Thick-walled, robust metal housing. Includes stand clamp and padded nylon bag.



KMR 81 i* Short version of the classic shotgun mic, with switchable filter and pre-attenuation functions. Excellent off-axis (lateral and rear) attenuation. Free of coloration. Includes windscreen and leather carrying case.



KMS 105* With a supercardioid directional characteristic, the KMS 105 provides very good suppression of sounds originating from the entire 180° hemisphere behind the microphone. Thick-walled, robust metal housing. Includes stand clamp and padded nylon bag.



KMR 82 i Long version of the classic shotgun mic, with switchable low-cut and high-cut filters. Excellent off-axis (lateral and rear) attenuation. Free of coloration. Includes windscreen and leather carrying case.



KK 104 S The capsule head of the KMS 104 vocal microphone (cardioid), designed exclusively for use with the Sennheiser SKM 5200 / 5000 N wireless system, makes possible wireless Neumann sound on the stage. Padded nylon bag.



RSM 191 A Set A remotely controlled short shotgun system with adjustable pickup angle for MS and XY stereophony. The system consists of the microphone, matrix amplifier (which can be operated with batteries), output and adapter cables, windscreen and aluminum case.



KK 105 S / KK 105 HD The capsule head of the KMS 105 vocal microphone (supercardioid), designed exclusively for use with the Sennheiser SKM 5200 / 5000 N wireless system, makes possible wireless Neumann sound on the stage. Padded nylon bag.



* Digital version available soon.

Neumann.Berlin

Miniature Microphones.

Due to their streamlined construction and tendency toward neutral sound, miniature microphones are suited to a wide range of applications, from instrumental recording, to a great variety of stereo recording techniques, to unobtrusive use on television.



Series 180 Because of its optimized mechanical construction and conscious omission of modularity, the Series 180 is ideal for budget conscious production and home studios. The KM 184 (cardioid) has become the classic high-quality miniature microphone and the KM 183 and KM 185 are based on its design. Available individually and in attractive stereo sets.



KM 100 System / KM A

Modular miniature microphone systems for professional users. A comprehensive selection of accessories permits adaptation to a wide range of mounting, hanging and installation requirements.

KM 100: Active Capsule Head + Output Stage

KM 120: Figure-8
KM 130: Omni, diffuse field equalized
KM 131: Omni, free field equalized
KM 140: Cardioid
KM 143: Wide angle cardioid
KM 145: Cardioid, low frequency roll-off
KM 150: Hypercardioid



KM A: Passive Capsule Head* + Output Stage

KK 183 + KM A = KM 183 A: Omni, diffuse field equalized
KK 184 + KM A = KM 184 A: Cardioid
KK 185 + KM A = KM 185 A: Hypercardioid
KK 120 + KM A: Figure-8
KK 131 + KM A: Omni, free field equalized
KK 133** + KM A: Omni, diffuse field equalized
KK 143 + KM A: Wide angle cardioid
KK 145 + KM A: Cardioid with low frequency roll-off



Neumann.Berlin

Broadcast Microphones.

Emotion conveyed with technical perfection. This is the ideal which these microphones have been designed to achieve. Their character is assured via fine-tuning to the requirements of professional broadcast studios and the unique functionally-optimized design.



BCM 104 Broadcast microphone with a large-diaphragm condenser capsule, featuring integrated pop protection, suppression of structure-borne noise and a cardioid directional characteristic. Exchangeable BCK baskets with integrated identification rings promote hygiene in heavy usage environments.



BCM 705 The first Neumann microphone with a small-diaphragm dynamic capsule. Integrated pop protection, suppression of structure-borne noise, and a hypercardioid directional characteristic. Exchangeable BCK baskets with integrated identification rings promote hygiene in heavy usage environments.



* The KK... capsule heads can be used as well as with the digital KM D output stage.

Neumann.Berlin

Special Microphones.

While most Neumann microphones are designed for maximum flexibility, certain situations call for special tools. Neumann has developed a range of solutions that address specific problems.



GFM 132 The problem solver for special recording situations. The uniform frequency response for all angles of incidence, with an increase in the upper frequency range, ensures clarity and presence even when sound from distant sources is recorded. However, optimal results are also obtainable when the mic is located in the bass drum! Includes windscreen and cable.



TLM 50 Set A high-end microphone for top-quality recording, particularly in the classical realm. Excellent transmission down to the lowest frequencies. Omni-directional characteristic, with special capsule mounting. Includes swivel mount cable and auditorium hanger.



KU 100 The KU 100 binaural dummy head transports the listener to the scene of the original performance, rather than bringing the acoustic event to the listener, as is the case with other stereo techniques. Includes output cable, adapter cable, power supply and aluminum case. Battery operation is possible.



Neumann.Berlin

Accessories.

Part of any good microphone program is a practical portfolio of accessories. Neumann offers a comprehensive range of accessories, facilitating use of the microphones in almost any conceivable situation.



Elastic Suspensions



Stands



Stereo Mounts



Stand Mounts



Goosenecks



Auditorium Hangers



Popscreens



Foam Windscreens



Windscreens Sets



Power Supplies



Connecting Cables



Adapter Cables

Directional Characteristics:

-  Cardioid
-  Figure-8
-  Wide angle cardioid
-  Hyper-/Supercardioid
-  Lobe

-  Omnidirectional
-  Hemispherical
-  Omni free field equalized
-  Omni diffuse field equalized
-  Cardioid, low frequency roll-off

Features:

-  High-Cut Filter
-  Low-Cut Filter
-  Switchable Low-Cut Filter
-  Remote Controllable
-  Pad

Colors:

-  Matte Black
-  Nickel
-  Black
-  Nextel Black
-  Nickel / Pearl Grey

Sennheiser Communications. Unified Communications.

Our wireless headset solutions are optimized for wherever work occurs, whenever needed – in a crowded and noisy desk area, a home office or while traveling. Just connect to your communications devices. – Comfort calls.



DW Office DW Office is an all new single-sided DECT headset for your desk phone and softphone. The design places a premium on comfort and effectiveness, allowing you to move freely around without any wires to hold you back. With its long-distance wireless range, DW Office gives you true comfort calls.



VMX Office VMX Office is the perfect headset for the amodern, dynamic professional. Offering outstanding listening and wearing comfort, it can connect to desk phones, PCs and Bluetooth® mobile phones. VMX Office – the headset you can wear comfortably all day long.



BW 900 Featuring Adaptive Intelligence™ for great speech recognition in any situation, the BW 900 is a premium wireless headset. This is a headset that automatically adapts to changing sound environments, remembering your preferred settings and delivering all-day listening comfort. It can connect to desk phones, Bluetooth® mobile phones and PCs.



BW 900 Mobile Business Solution Able to connect to all Bluetooth® mobile phones, the BW 900 Mobile Business Solution is ideal for dynamic, mobile professionals. It features Adaptive Intelligence™ for great speech recognition in any situation and all-day listening comfort.



Sennheiser Communications. Internet telephony.

Your voice is being transferred with a crystal-clear sound while using internet telephony. Say hello to internet telephony and goodbye to expensive phone bills.



NEW

PC 11 The PC 11 Internet Telephony headset makes it easy to phone over the net thanks to one-hand operation – while the ultra-light on-ear design is stylishly discreet.



PC 21 The single-sided PC 21 is perfect for all kind of internet communication/VoIP. It is easy to use and delivers excellent voice clarity thanks to its noise-canceling microphone.



PC 121 In ultra-light design, the PC 121 is just the right one to phone via internet while travelling, working or when at home. The in-ear headset does not need much space, neither in your baggage nor on your desk.



NEW

PC 26 USB The next-generation PC 26 USB internet telephony headset combines single-sided comfort with an in-line volume/mute control and integrated soundcard for Sennheiser sound quality with every call.



PC 31 The PC 31 stereo headset is ideal for internet communication/VoIP and listening to music. It is easy to use and delivers excellent voice clarity thanks to its noise-canceling microphone.



NEW

PC 36 USB The next-generation PC 36 USB headset gives the user an in-line volume/mute control and integrated soundcard – for internet calls, music and movies with Sennheiser sound guaranteed.



Sennheiser Communications. Music, Entertainment and Gaming.

Listen to music, watch movies and game into tomorrow.
With our headsets you can enjoy all sound in superb
Sennheiser stereo.



PC 131 Thanks to superb stereo sound, the PC 131 is the ideal headset for enjoying music, movies and internet communication. It is lightweight and comfortable to wear all day long.



PC 146 USB Thanks to its superb stereo sound, the PC 146 USB is perfect for enjoying music and movies as it is for making calls on the internet. It features a detachable USB adapter with an integrated soundcard giving you that great Sennheiser stereo experience. Its neckband design delivers outstanding comfort – in style.



PC 141 Thanks to its superb stereo sound, the PC 141 is just as great for enjoying music and movies as it is for making calls on the internet. Its stylish neckband makes it an extremely comfortable piece of kit.



PC 230 The multimedia headset with cutting-edge stereo sound and added comfort for pristine telephony and an inspirational entertainment experience. Automatic microphone mute, left/right reversibility and on-ear cup volume control put the PC 230 in a comfort class of its own.

Sennheiser Communications. Gaming.

We develop our gaming headsets in close cooperation with pro gamers and that's why we know exactly what you – as a gamer – need. They all deliver great stereo sound.



PC 151 The PC 151 features an adjustable, ultra-comfort headband, in-line volume control, microphone mute switch and extra large velour ear cup pads – just the right features for intensive gaming!



PC 161 The PC 161 is a headset for serious online match play, competition or LAN parties. It uses the open speaker system to deliver true-to-life sound for superior gaming performance and XL ear cups with the velour pads provides maximum comfort!



PC 350 G4ME This award-winning headset for pro gamers features oversized ear cup pads for endless gaming, an extremely rugged design, a microphone mute function and a pro microphone for optimal speech clarity. The PC 350 G4ME is in a class of its own!



PC 300 G4ME The perfect choice for the gamer who likes to travel: the PC 300 G4ME is a lightweight, in-ear headset. Thanks to three ear sleeve sizes, the PC 300 is comfortable to wear and delivers the full Sennheiser audio experience without any distracting background noise.



PC 330 G4ME The high-performance headset for ambitious global gamers, the PC 330 has all you need to stay in the game. Like a closed design that keeps you focused on the win and right DJ Hinge ear cup for talking directly with your teammates.

PC 360 G4ME Developed with the top eSport team mTw, the PC 360 is a new flagship for pro gaming. It has an open design that makes sure you keep a cool head – and delivers a natural listening experience so you can stay in touch with your surroundings. Thanks to the ultra-comfortable ear cups, pro microphone and quick-access controls, it's also the only headset you'll ever need for

Sennheiser Communications.

Mobile music and entertainment.

Do you want to be able to switch between great music and crystal-clear conversations when using your mobile phone? Whatever you go for, a Sennheiser Communications headset will take your mobile experience to the next level.



MM 50 for iPhone Delivering pro-quality stereo sound, the MM 50 iPhone maximises your listening enjoyment with an iPhone, iPod and even the latest MacBooks. With three ear sleeve sizes for a perfect fit and high insulation from noisy surroundings, a superb bass response is guaranteed. Available either in white or black.



MM 60 for iPhone The MM 60 iPhone gives you a brilliant music experience and you will never miss a call anymore. The Hi-Fi quality sound maximizes your listening enjoyment with an iPhone, iPod and even the latest MacBooks. The detachable cable with an in-line microphone makes the foldable headset very convenient: you just need to change the cable when using a new mobile phone.



MM 100 The MM 100 Bluetooth® stereo headset lets you enjoy music and never miss a call all from your mobile phone. Not only is clear Sennheiser sound quality a given – the lightweight neckband style is perfect for sports, walking the streets or just relaxing in the park without getting tangled up in a cord.



MM 200 The MM 200 is a stereo Bluetooth® headset offering the premium sound quality Sennheiser is famous for. Choosing one of three ear sleeve sizes will give you a comfortable fit, high insulation from noisy surroundings and an excellent bass response.



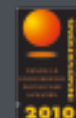
MM 400 The MM 400 is a state-of-the-art Stereo Bluetooth® headset for multimedia mobile phones. With one press of a button, you can quickly switch between calls and music delivered in superb stereo sound. The high-performance invisible microphone ensures that conversations are clear, making this foldable headset the perfect all-in-one sound solution.



NEW



MM 450 TRAVEL Silence is golden with the MM 450 TRAVEL for multimedia mobile phones. This best-of-breed Stereo Bluetooth® headset features Sennheiser's NoiseGard™ 2.0 active noise cancelling system. With 90% of background noise canceled out, you can take a call in crystal-clear quality or relax with your favorite music in outstanding Sennheiser stereo sound.



NEW

Sennheiser Communications. Wireless mobile communication.

Comfortable and lightweight, our wireless Bluetooth® headsets make perfect companions for your mobile phone. Able to connect to any Bluetooth®-enabled device, you can keep your hands free and make calls in comfort wherever your busy life takes you.



EZX 60 The stylish EZX 60 Bluetooth® headset is the wire-free answer to making easy phone calls with superb sound quality while on the go. Whether you're talking with business partners or friends on busy streets, Sennheiser Communications' digital noise and echo cancellation technologies ensure every word of your conversation comes through clear and sharp.



Sennheiser Communications. Standard headsets.

Perfect for office- and call center staff, our headsets deliver your calls in clear sound quality, helping you to truly concentrate on your caller. All headsets are equipped with ActiveGard™ assuring you're always 100% protected from acoustic shock and sudden surges in volume, so you can talk in comfort as long as you like. – Comfort calls.



CC 550 The CC 550 is our top-of-the-line, binaural headset that delivers powerful, accurate sound to both ears for excellent speech comprehension. Its durable construction makes it perfect for any type of office or professional communication. Also available as wideband version for connecting to your PC / softphone.



CC 540 The CC 540 is the headset for maximum productivity. The binaural headset delivers powerful, precise sound to both ears for excellent speech comprehension. Its durable construction makes it perfect for any type of office or professional communication.



CC 530 The CC 530 is an extremely robust monaural headset. It provides excellent sound and is very comfortable to wear. Its durable construction makes it perfect for any type of office or professional communication.



CC 520 This binaural headset delivers powerful, accurate sound to both ears for excellent speech comprehension. Its durable construction makes it perfect for any type of office or professional communication. Also available as wideband version for connecting to your PC / softphone.



CC 515 The CC 515 is an extremely robust monaural headset with an extra-large ear cup that improves fit and comfort. The perfect headset to maximize work performance. Also available as wideband version for connecting to your PC / softphone.



SH 330 The SH 330 is a lightweight, all-purpose monaural headset ideal for longer conversations. Its noise-canceling microphone and superb sound make it ideal for users who value making their calls in comfort. Also available as wideband version for connecting to your PC / softphone.



CC 510 The CC 510 is an extremely robust monaural headset. It provides excellent sound and is very comfortable to wear. Its durable construction makes it perfect for any type of office or professional communication.



SH 300 The SH 300 is an all-purpose, ultra-lightweight monaural headset, ideal for longer conversations. If you value great comfort and superb speech definition in any professional situation, this stylish and high-quality headset is the one for you.



SH 350 Featuring crystal-clear sound in both ears and a noise-canceling microphone, the SH 350 is the headset of choice for professionals. Also available as wideband version for connecting to your PC / softphone.



SH 250 SH 250 is a binaural, lightweight headset which delivers high comfort and great speech clarity.



SH 335 The SH 335 is a flexible headset that delivers comfort as well as great speech clarity thanks to its noise canceling microphone. Switch between ear-clip and headband to find the wearing style that best suits you.



SH 230 SH 230 is a monaural, lightweight headset which delivers high comfort and great speech clarity. Also available as wideband version for connecting to your PC / softphone.

Distributed Brands:



K-array's incredible thin & lightweight loudspeakers are manufactured in Italy, distributed and supported in the U.S. exclusively by Sennheiser. Despite their small size K-array speakers deliver impressive power and audio quality for small, medium, and large-scale applications. The K-array line covers all needs for Live Sound, Installed Sound, and Portable Audio.



KK50vb The KK50vb is a professional 3D line array speaker system that can produce extremely high sound pressure levels with unprecedented quality. This slim column is a mere 2.2" (5.6 cm) deep and weighs in at an extremely modest 5.5 lbs (2.5Kg), yet it delivers true crystal clear audio with an output of 114dB.



KK50 The KK50 loudspeaker is a very compact, 3D array loudspeaker element. It allows you to perform 3D arrays with virtually no phase issues, creating a coherent wave front that can perfectly cover the venue with constant pressure and equalization, drastically reducing undesired ambient reflections.



KK100 The larger KK100 offers twice as many drivers (16) as the KK50. It provides a full choice of presets from KA amplifiers to optimize Kobra performance in any application.



KK200 The KK200 loudspeaker is a very compact, 3D array loudspeaker element, boasting thirty two (32) 2" long-excursion drivers. As with all other Kobra systems, it can deliver virtually phase-free 3D arrays.



KK50 The KV50 loudspeaker is a very compact-ultra flat loudspeaker. In contrast to conventional low power 70-volt transformer-based systems, the KV50 connects directly to the amplifier and is capable of producing high sound pressure levels while dramatically reducing distortion. It employs sophisticated 1" transducers and a full choice of presets from KA amplifiers to optimize Vyper performances in any application.



KT20 The KT20 miniature speaker is a passive loudspeaker designed for high quality distributed systems. Housed in a compact aluminum enclosure, the KT20 is especially suitable for installations involving space limitations and visibility concerns. Its flexible and easy-to-configure mounting options, make it an excellent choice for fixed applications, theatrical presentations, and small portable systems for corporate AV solutions.



KT20c The KT20c miniature sound source is a passive loudspeaker, designed for ceiling mounted, high quality distributed systems. Housed in a compact aluminum enclosure, the KT20c is especially suitable for installations involving space limitations and visibility concerns.



KT20ma The KT20ma delivers an incredible maximum peak of 107dB from its integrated amplifier in a unit that fits in the palm of your hand. The elegant but rugged enclosure is built to aircraft specifications from a single piece of aluminum and measures a mere 2.5" (6.4cm) (dia) x 3.7" (9.3cm) (deep).



KZ10 The Lyzard KZ10 is a remarkable ultra-micro line array, designed for discreet use in a variety of situations such as restaurants, bars and museums. This tiny line array is housed in a sleek case built around a super strong chassis. This rugged enclosure contains a line array of 4 x 0.5" long excursion full range drivers.



KKS50 The Kobra KKS50 subwoofer is designed to be used with any Systems Integration Series loudspeakers to produce clear, concise, thunderous bass and subharmonics.



KA Amplifiers The KA professional rack amplifier line has been designed to support all touring and installation applications in which a large amount of power and maximum flexibility is needed. On-board DSP provides perfect signal processing for all K-array products, offering a large choice of dedicated presets to handle most any high-end application. A dedicated remote control ensures a constant connection with all the units, and allows complete management of the installed presets (and the ability to download new ones).



KR100s The KR100s is a high performance ultra-slim powered two way system designed for use with small to medium wavefront systems, in both mobile and install applications. The ultra-light reflex cabinet is fitted with two pocket handles and one 35mm pole mounting point for easy installation of satellite speakers, and offers large area porting to reduce air noise. It features a line array of 2" high efficiency drive units with neodymium magnet structure and suspensions engineered for maximum linear excursion and minimum noise problems. The ultra-strong chassis ensures high durability.

Redline



KR200s The larger KR200s offers the same state-of-the art features as the KR100s but boasts a line array of (32) 2" high efficiency drive units. It excels in small to medium wave-front systems, in both mobile and install applications. Its ultra-strong chassis ensures high resistance and durability. ensures high durability.

Redline



KF12 The KF12 is a self-powered 2-way full range coaxial speaker. Despite its ultra-compact size, it offers an incredible reserve of power that ensures high SPL over wide 3D coverage, with consistently excellent sound quality. Ideal for medium throw applications, like theaters, concert halls and churches, the KF12 is designed to easily integrate with the KL18 ultra light subwoofer, powered by the sub power output.

Reference



KL12 The KL12 is a high performance sub-bass system designed for use with small to medium wavefront systems, in both touring and install applications. It features a 600 watt 12" drive unit with neodymium magnet structure and suspension engineered for maximum linear excursion. The ultra-light reflex cabinet is fitted with two pocket handles and one 35mm pole mounting point for easy installation with satellite speakers. It features large area porting to reduce air noise, and is designed to be powered by sub power output. Also available in a 1000W self-powered version.

Reference



KL18 The KL18 is a high performance sub-bass system designed for use with small to medium wavefront systems, in both touring and install applications. It features a 1600-watt 18" drive unit with neodymium magnet structure and suspension engineered for maximum linear excursion. The ultra-light reflex cabinet is fitted with two pocket handles and one 35mm pole mounting point for easy installation of satellite speakers. It features large area porting to reduce air noise, and is designed to be powered by sub power output. Also available in a 1200W self-powered version.

Reference



KH4 The KH4 is a self-powered 2-way line array speaker that offers an incredible reserve of power for very high SPL with consistently superior sound quality. It is ideal for longer throw applications in large venues, yet it is a mere 6.3" (16cm) flat and weighs just 104 lbs (47Kg) for easy use in more compact spaces. The KH4 boasts twelve 8" cone drivers (each with a 2.5" voice coil) for low-mid frequencies, powered by six power amplifier channels. The mid-high frequencies section uses five 1.75" voice coil compression drivers that drive 1"x4" constant directivity waveguides. Its drivers form an array exactly in the centre of the speaker, and a mechanical system allows different vertical coverage (from 7° to 37°) on each. The transducers are driven by an internal DSP module, and dedicated remote control software lets you control the speaker from a PC.



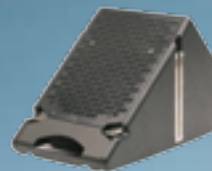
KH15 The KH15 is a self-powered 2 way line array design speaker. Despite its ultra-compact size, it has an incredible reserve of power ensuring very high SPL over wide horizontal coverage with consistently excellent sound quality. Ideal for medium throw applications in theatres, concert halls and churches, its low profile box also excels in frontfill or corporate AV applications.



KS4 The KS4 is a self-powered dipole high performance subwoofer offering plenty of power for high SPL with superb sound quality. It is ideal for large live applications, especially touring P.A. systems. Only 6.3" (16cm) flat and weighing just 82 lbs (37Kg), the KS4 thrives in compact spaces. It easily integrates with other units, such as satellites.



Ko70 The Ko70 is a self-powered high output subwoofer boasting an incredible reserve of power that delivers very high SPL with stellar sound quality. Ideal for medium and large live applications, especially touring P.A. systems, the Ko70 easily integrates with other units. The Ko70 features two 21" very high excursion cone drivers (each with a 6" voice coil) for very low frequencies, powered by two power amplifier channels, (3500 watt RMS each).



KM8 The KM8 is a compact, high performance stage monitor combining high output and controlled dispersion design to meet critical requirements in professional applications. It features a high-excursion 8" mid-low frequency drive unit and two 1.75" compression drivers mounted on two waveguides. Unlike standard monitoring systems, the KM8 does away with annoying phase problems.



Ko40 The Ko40 is a self-powered high output subwoofer offering very high SPL with superb sound. It sports a 21" very high excursion cone driver with a 6" voice coil for very low frequencies and is powered by a 4000 watt RMS power amplifier. The woofer is sturdily mounted in a box that ensures high rigidity and resistance to vibrations.



KJ50vb Ninja Along with its ultra-slim profile, substantial output capability and smooth frequency response over the full vocal range, the KJ50vb Ninja has the unique capability to switch-select the Horizontal coverage pattern and to vary the Vertical coverage through DSP control.

Distributed Brands:



HHB Communications is one of Europe's leading supplier of professional audio technology. From the CDR882 DualBurn, DRM-85 Flashmic to the HHB recording media, HHB is defining itself as a leader in the development and production of digital recording products and recording media.



FlashMic Available in 4 models, FlashMic is the world's first digital recording microphone. Combining a studio quality Sennheiser mic capsule with a broadcast quality Flash recorder and high-speed USB file transfer, FlashMic makes it easy to capture and deliver high quality recordings, leaving the journalist free to concentrate on the story.



DRM85 Omni-directional FlashMic Digital Recording Microphone



DRM85-C Cardioid FlashMic Digital Recording Microphone



DRM85-LI Omni-directional FlashMic Digital Recording Microphone with line input



DRM85-CLI Cardioid FlashMic Digital Recording Microphone with line input



UDP-89 The HHB UDP-89 is designed to provide the system integrator with a highly robust, flexible and professionally specified alternative to the consumer players that have previously been pressed into service. The UDP-89 is a universal DVD/CD player that delivers broadcast-quality video and audio playback and has a host of professional interfacing features that make it ideal for use in a wide variety of mobile and fixed installations.



CDR882 DUALBURN The HHB CDR882 is a dual drive CD recorder designed from the ground up for uncompromised professional performance. A genuine REC-REC drive configuration supports seamless extended recording time across two or more discs, simultaneous recording of two discs, and high speed duplication, equipping the CDR882 for a wide range of professional applications including broadcast, music production, live sound recording, houses of worship and duplication.



PROFESSIONAL RECORDING MEDIA HHB Professional Recording Media is designed to provide audio and video professionals with the highest possible levels of performance, compatibility and long-term archival security across all major digital recording formats.

CONSUMER ALERT

Most users do not need a license to operate a wireless microphone system. Nevertheless, operating a microphone system without a license is subject to certain restrictions: the system may not cause harmful interference; it must operate at a low power level (not in excess of 50 milliwatts); and it has no protection from interference received from any other device. Purchasers should also be aware that the FCC is currently evaluating use of wireless microphone systems, and these rules are subject to change. For more information, call the FCC at 1-888-CALL-FCC (TTY: 1-888-TELL-FCC) or visit the FCC's wireless microphone website at: www.fcc.gov/cgb/wirelessmicrophones